

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
Product Name:	7" Tablet
Test Model:	100071481
Sample ID:	20211116-07-1#
Environmental Conditions	
Temperature:	24.6°C
Relative Humidity:	49%
Test Voltage:	DC 3.85V
Test Engineer:	JianPing Huang
Note: For a more detailed features description, please refer to the report TB-FCC185300.	

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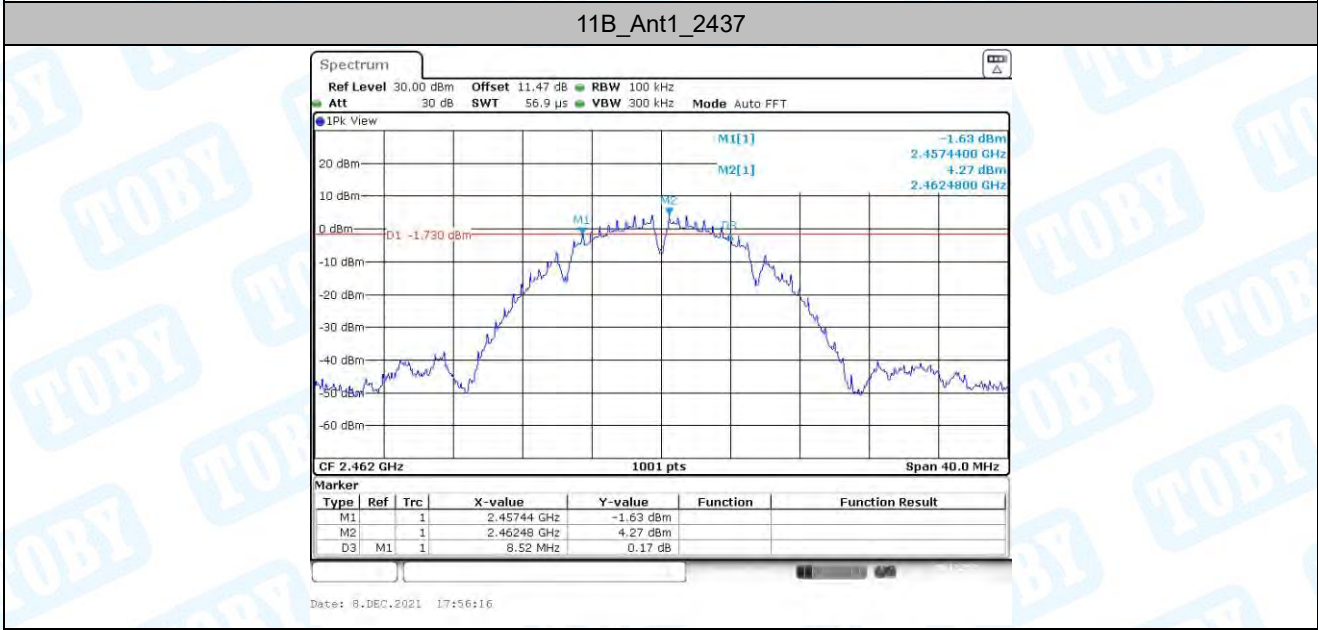
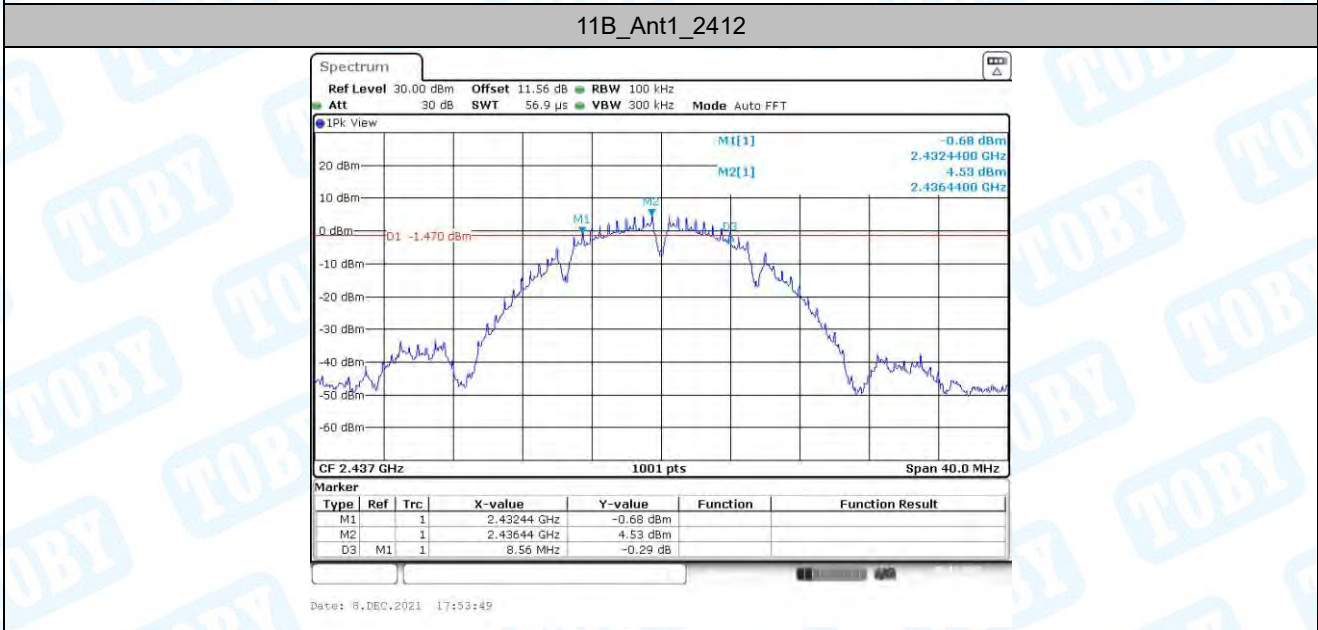
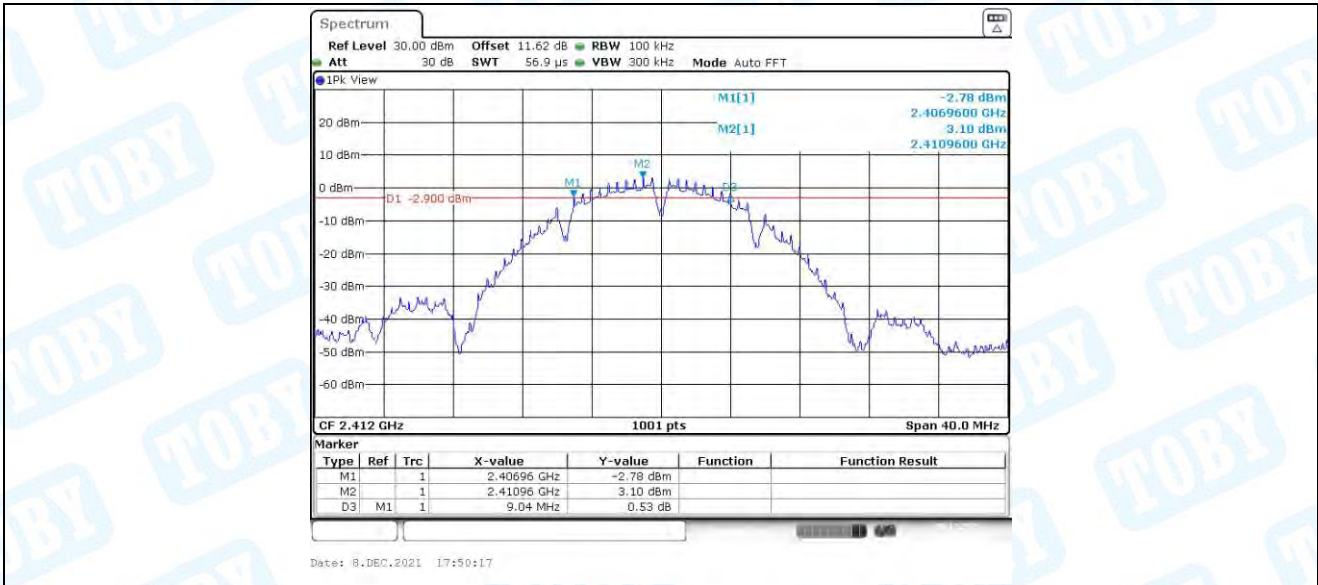
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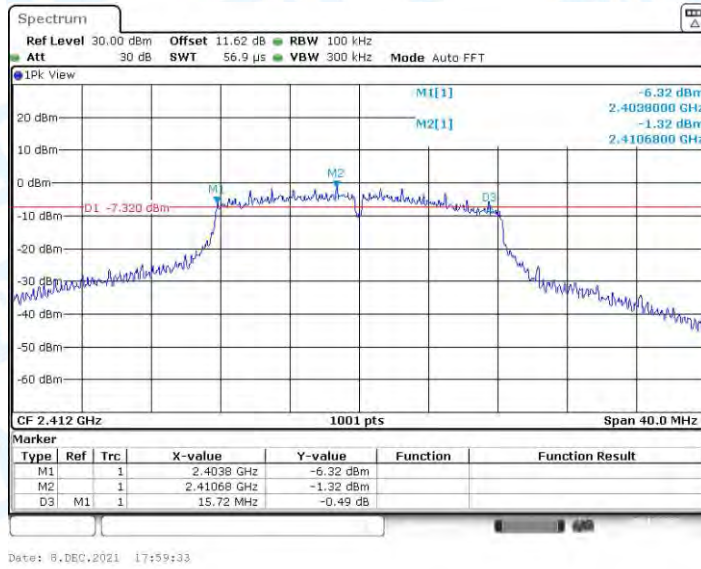
1. DTS Bandwidth

1.1. Test Result

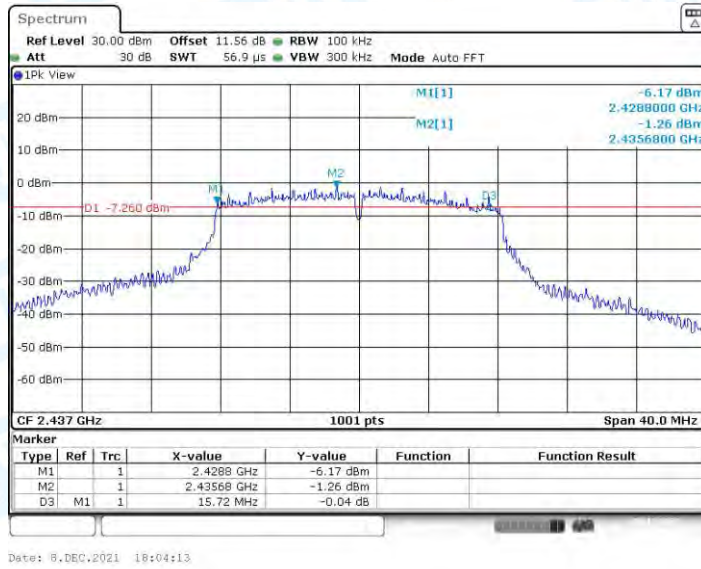
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.04	2406.96	2416.00	0.5	PASS
		2437	8.56	2432.44	2441.00	0.5	PASS
		2462	8.52	2457.44	2465.96	0.5	PASS
11G	Ant1	2412	15.72	2403.80	2419.52	0.5	PASS
		2437	15.72	2428.80	2444.52	0.5	PASS
		2462	15.72	2453.80	2469.52	0.5	PASS
11N20SISO	Ant1	2412	16.36	2403.16	2419.52	0.5	PASS
		2437	17.56	2428.16	2445.72	0.5	PASS
		2462	16.92	2453.44	2470.36	0.5	PASS
11N40SISO	Ant1	2422	33.20	2403.76	2436.96	0.5	PASS
		2437	35.76	2418.76	2454.52	0.5	PASS
		2452	35.68	2433.84	2469.52	0.5	PASS

1.2. Test Graphs

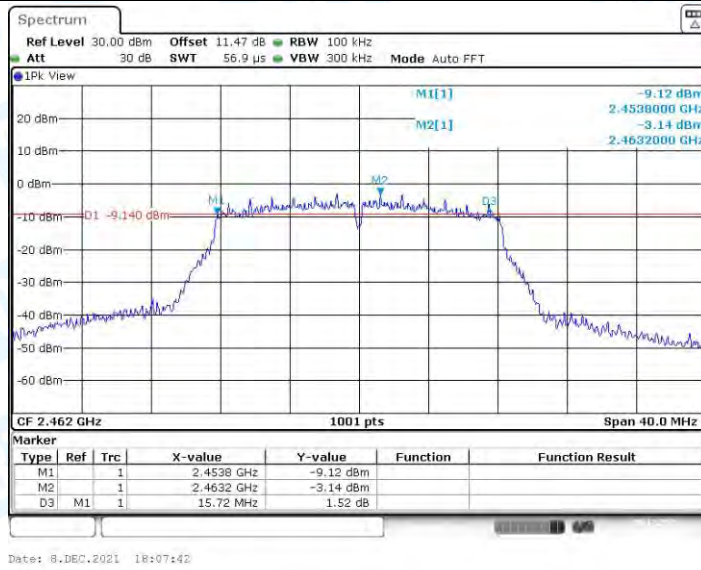




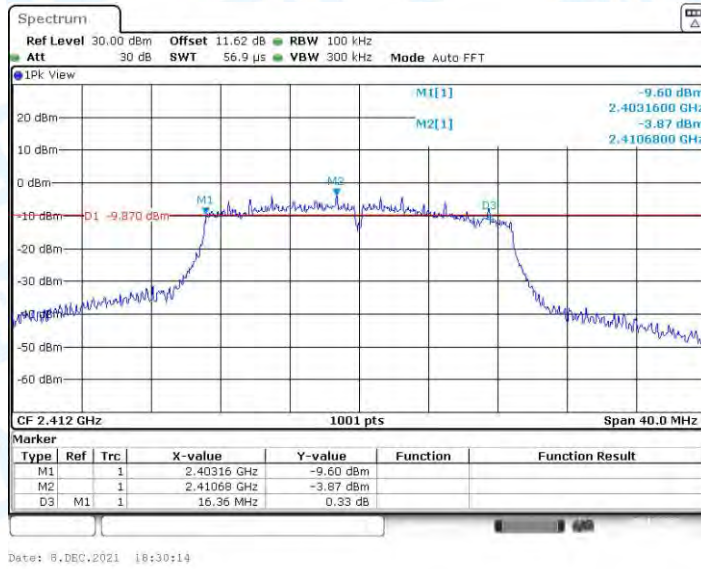
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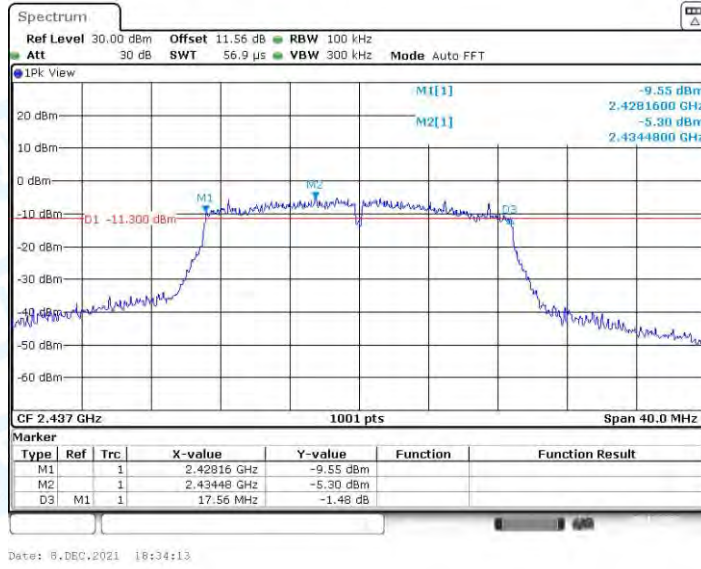
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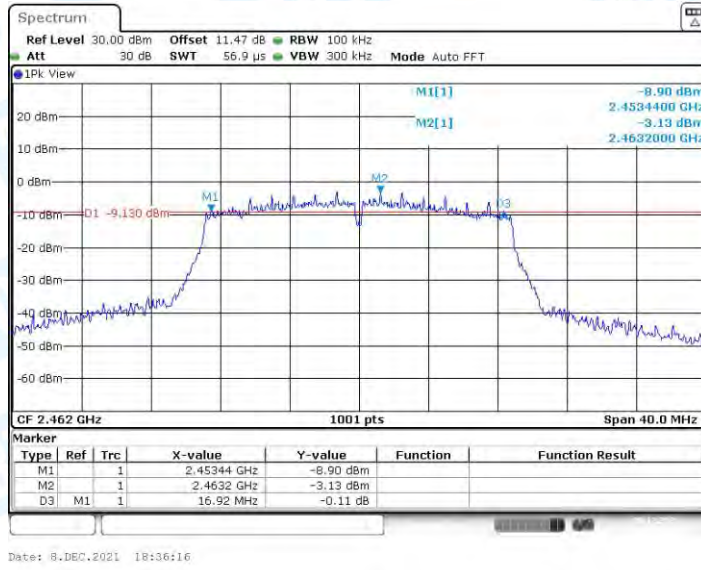
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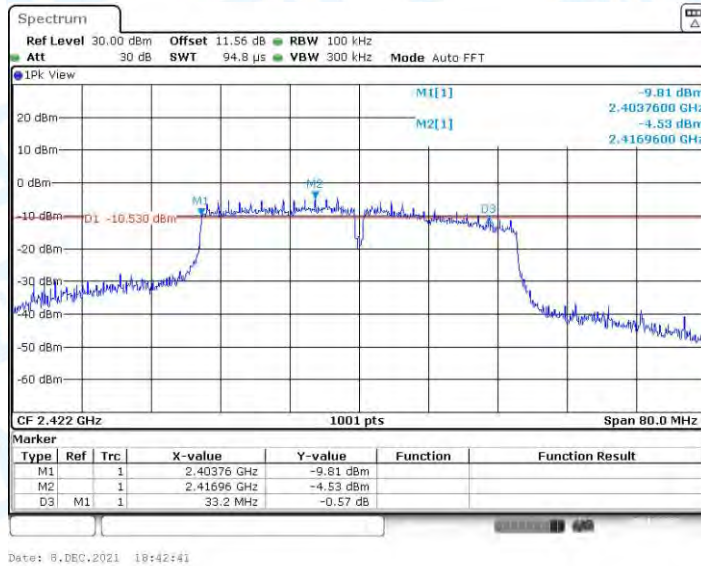
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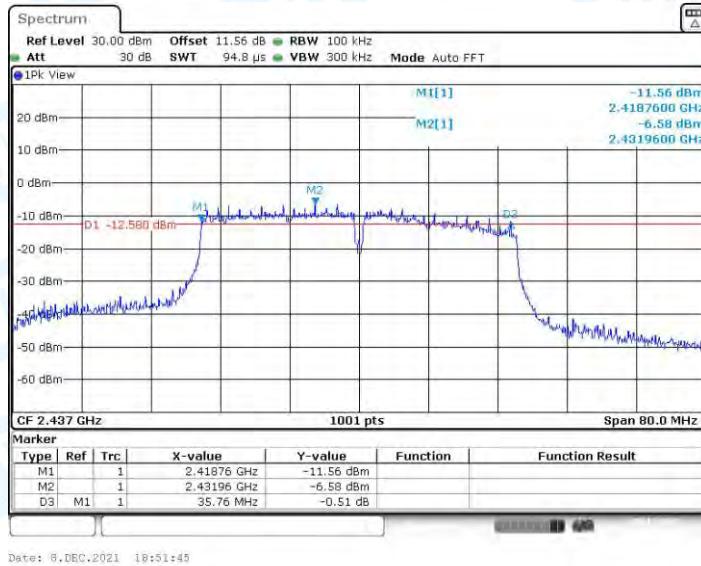
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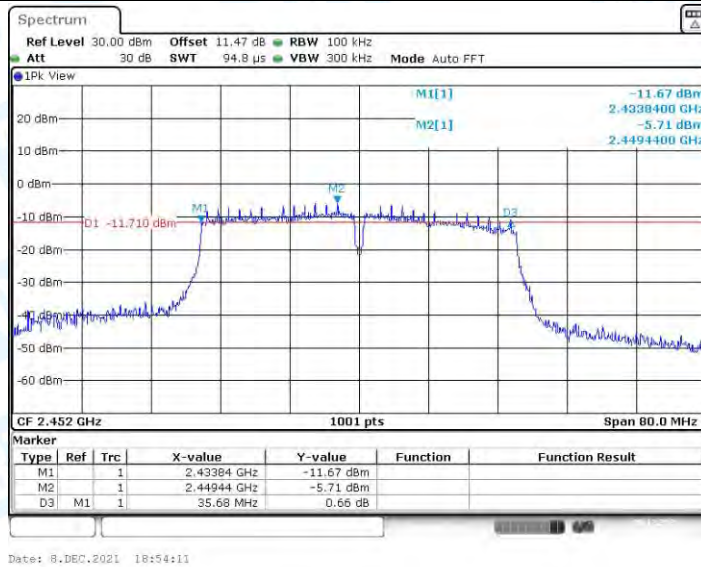
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

2. Occupied Channel Bandwidth

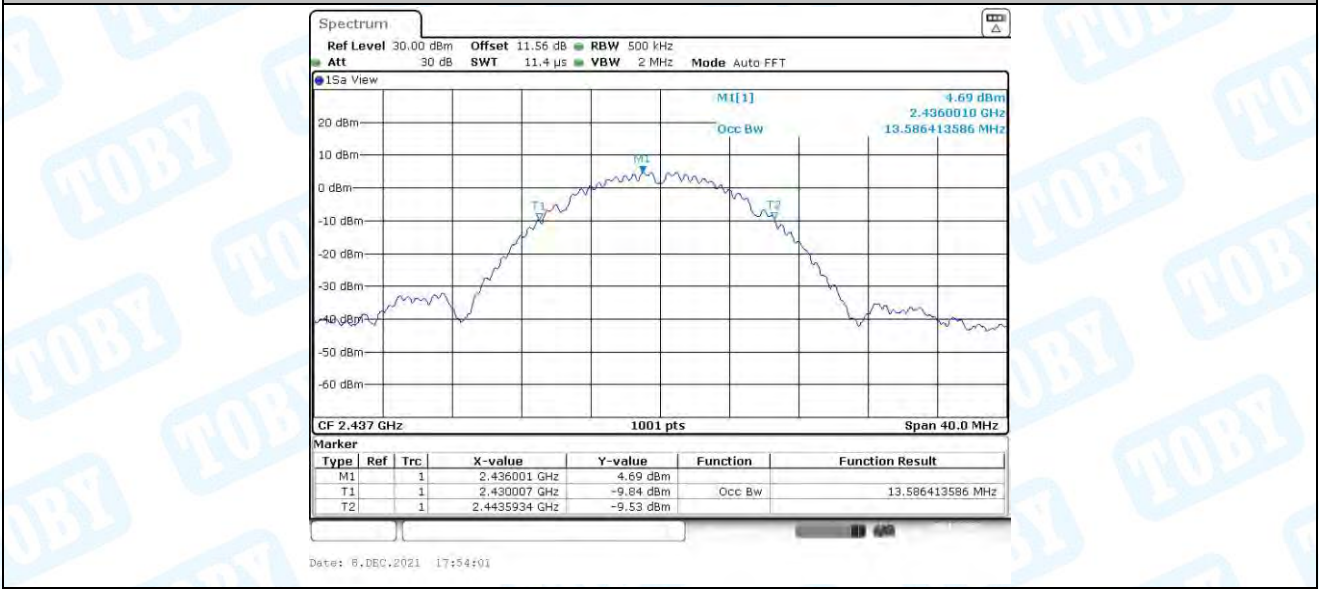
2.1. Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.746	2404.847	2418.593	---	PASS
		2437	13.586	2430.007	2443.593	---	PASS
		2462	13.187	2455.287	2468.474	---	PASS
11G	Ant1	2412	17.542	2402.729	2420.272	---	PASS
		2437	17.023	2428.369	2445.392	---	PASS
		2462	17.183	2453.409	2470.591	---	PASS
11N20SISO	Ant1	2412	17.902	2402.889	2420.791	---	PASS
		2437	18.022	2427.849	2445.871	---	PASS
		2462	18.062	2452.889	2470.951	---	PASS
11N40SISO	Ant1	2422	36.843	2402.899	2439.742	---	PASS
		2437	36.364	2418.379	2454.742	---	PASS
		2452	36.044	2433.778	2469.822	---	PASS

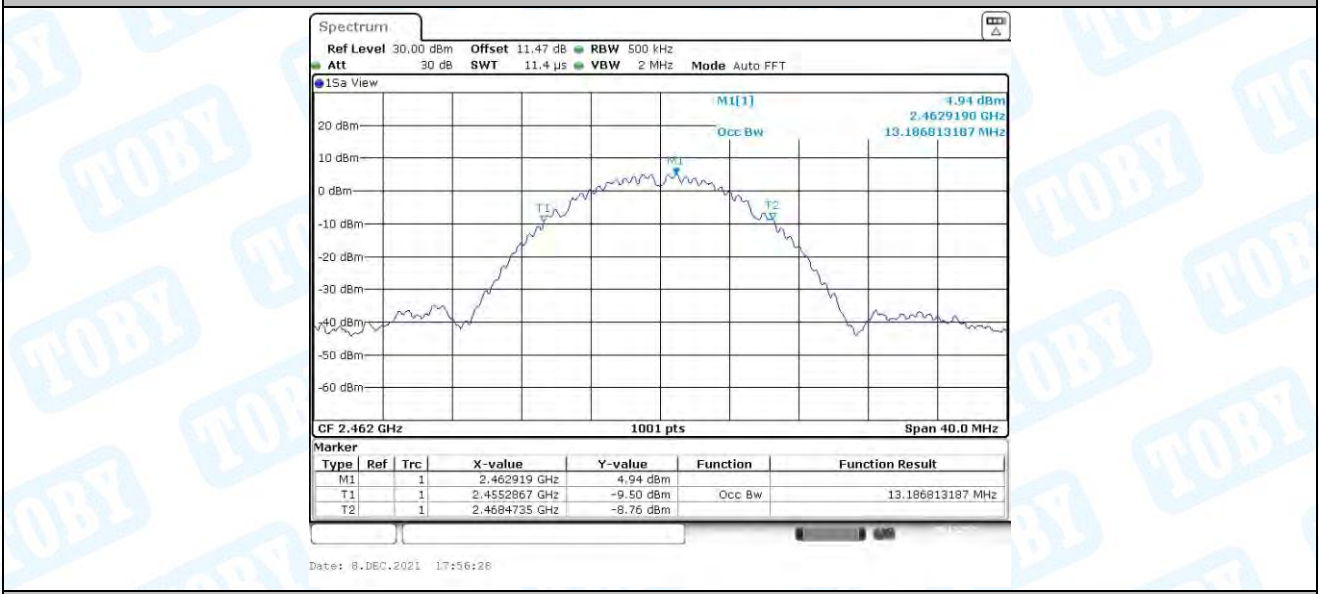
2.2. Test Graphs



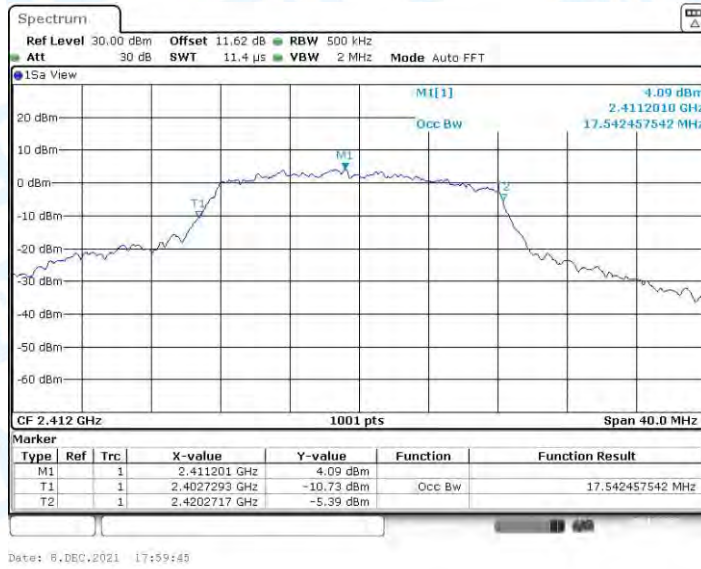
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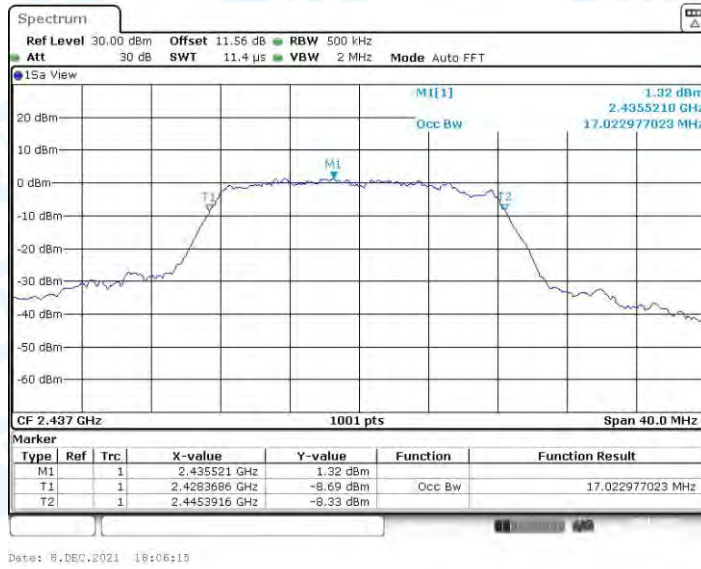
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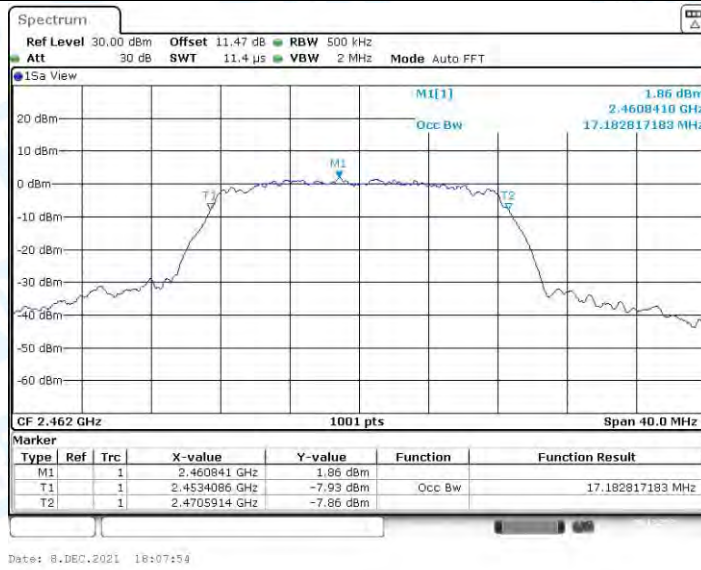
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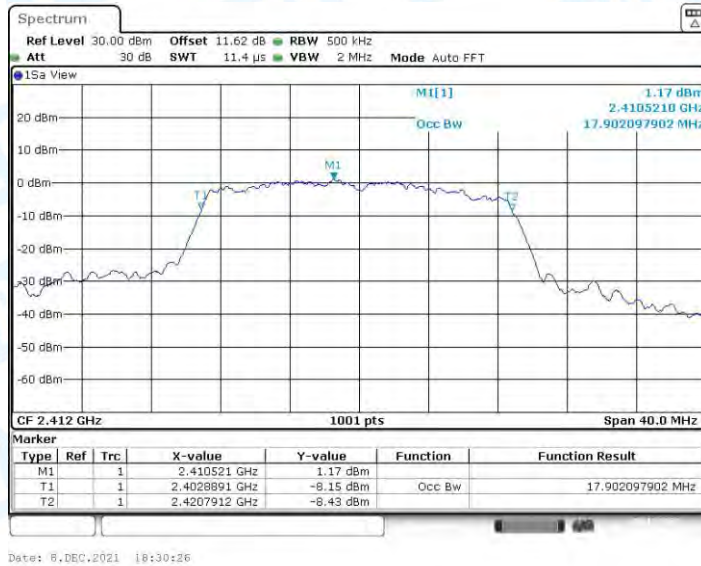
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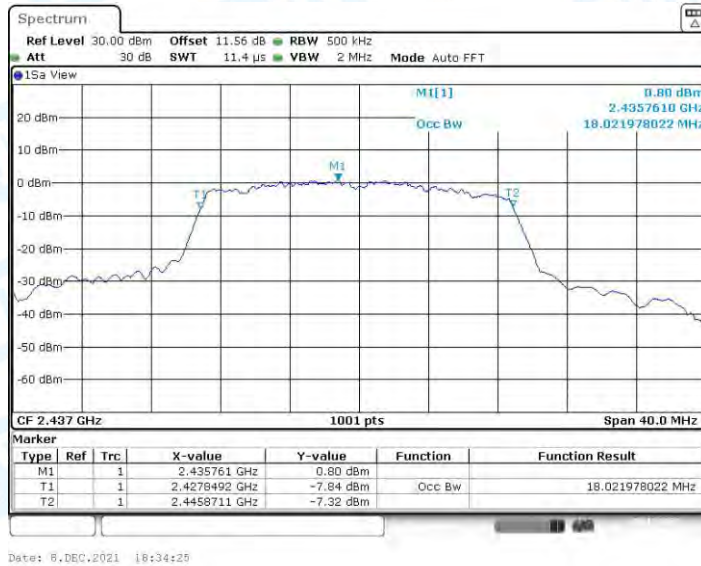
11G_Ant1_2437



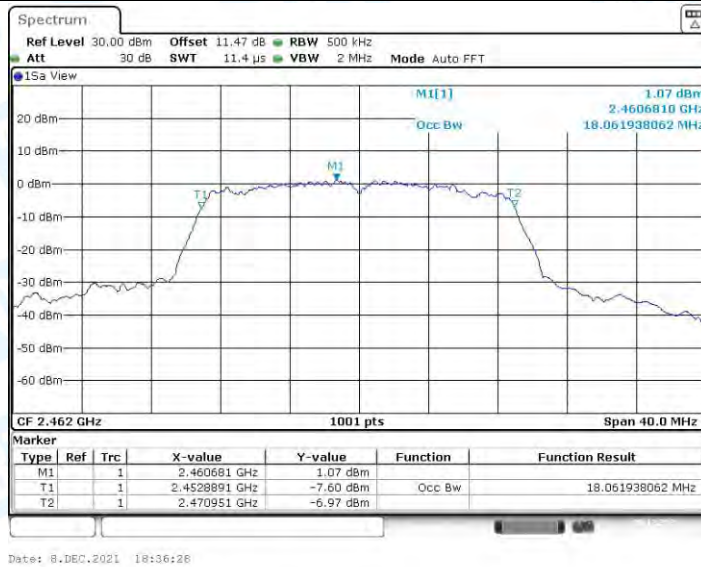
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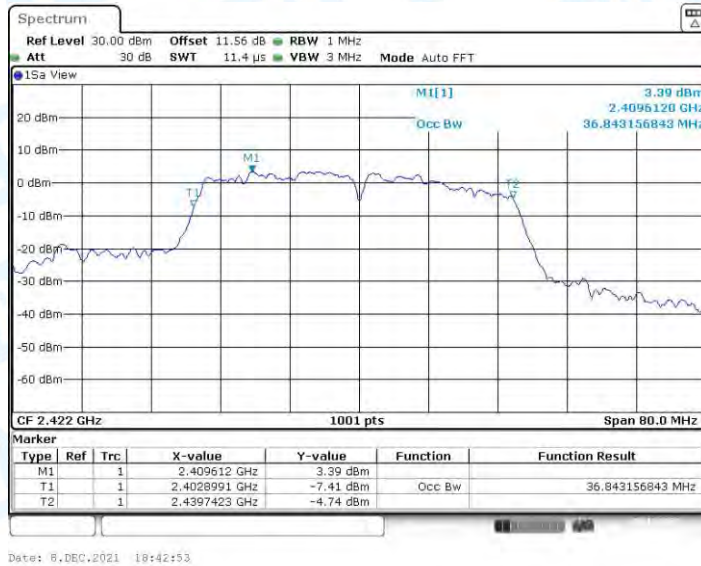
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11N20SISO_Ant1_2437



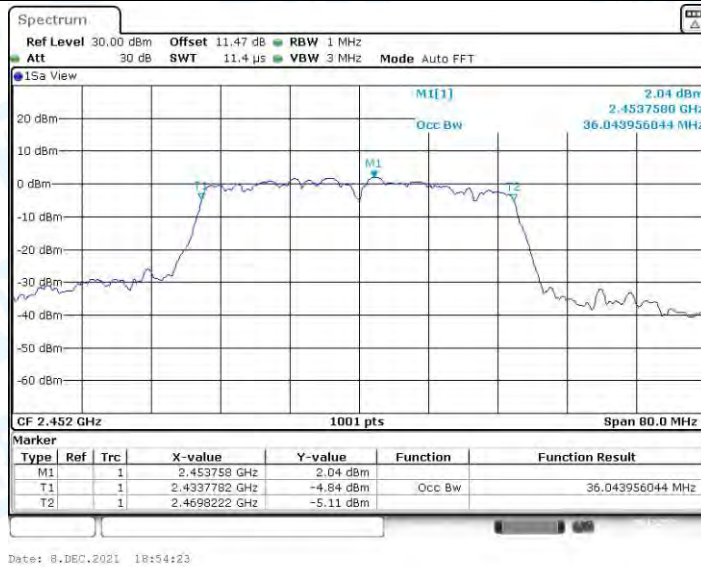
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

3. Maximum conducted output power

3.1. Test Result

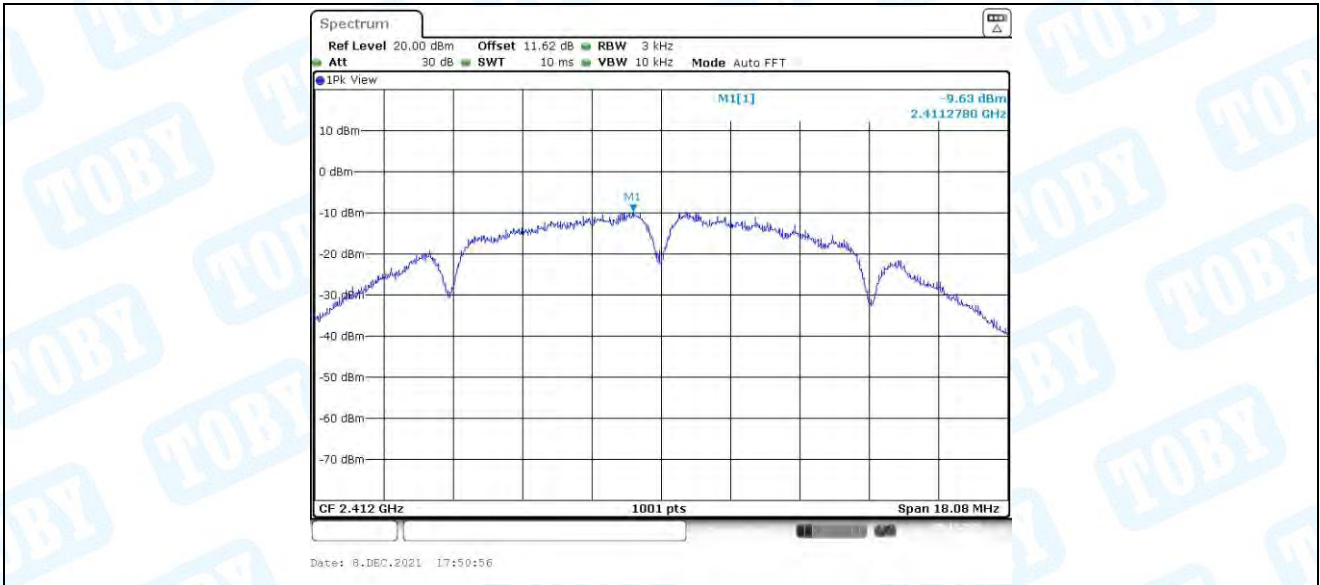
TestMode	Antenna	Channel	Power [dBm]	Limit [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.80	≤30	16.51	≤36	PASS
		2437	15.60	≤30	17.31	≤36	PASS
		2462	15.75	≤30	17.46	≤36	PASS
11G	Ant1	2412	15.52	≤30	17.23	≤36	PASS
		2437	15.82	≤30	17.53	≤36	PASS
		2462	16.17	≤30	17.88	≤36	PASS
11N20SISO	Ant1	2412	15.32	≤30	17.03	≤36	PASS
		2437	15.47	≤30	17.18	≤36	PASS
		2462	15.83	≤30	17.54	≤36	PASS
11N40SISO	Ant1	2422	15.66	≤30	17.37	≤36	PASS
		2437	15.66	≤30	17.37	≤36	PASS
		2452	15.84	≤30	17.55	≤36	PASS

4. Maximum power spectral density

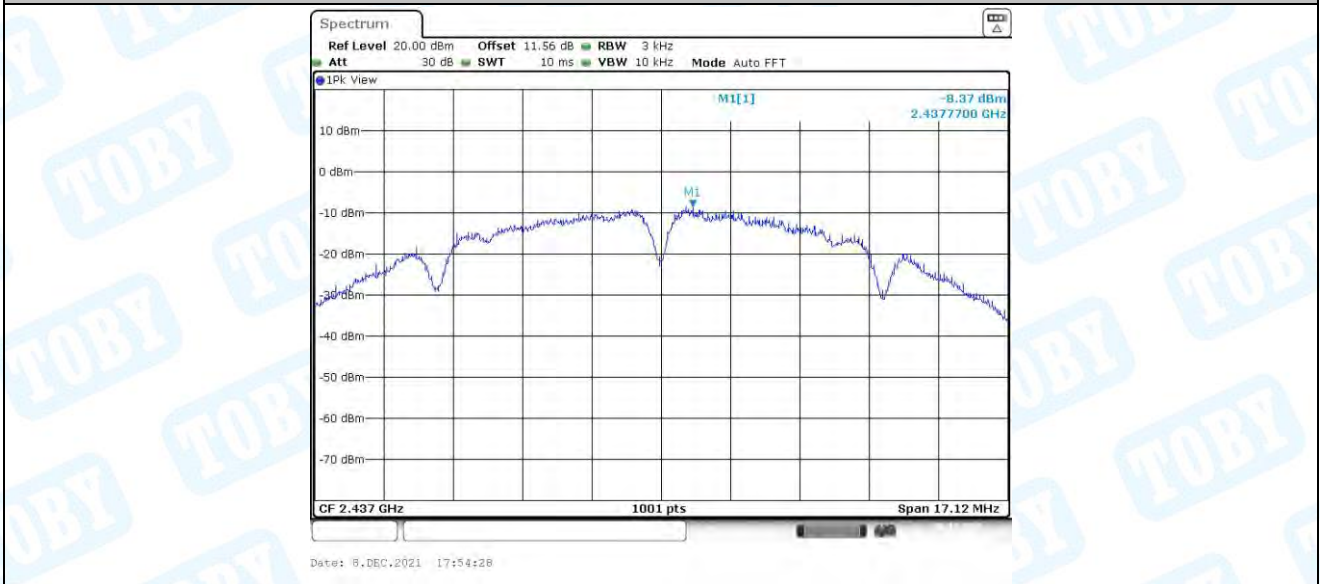
4.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-9.63	≤8	PASS
		2437	-8.37	≤8	PASS
		2462	-7.77	≤8	PASS
11G	Ant1	2412	-15.09	≤8	PASS
		2437	-12.77	≤8	PASS
		2462	-15.43	≤8	PASS
11N20SISO	Ant1	2412	-16.39	≤8	PASS
		2437	-16.15	≤8	PASS
		2462	-13.98	≤8	PASS
11N40SISO	Ant1	2422	-18.56	≤8	PASS
		2437	-19.85	≤8	PASS
		2452	-19.36	≤8	PASS

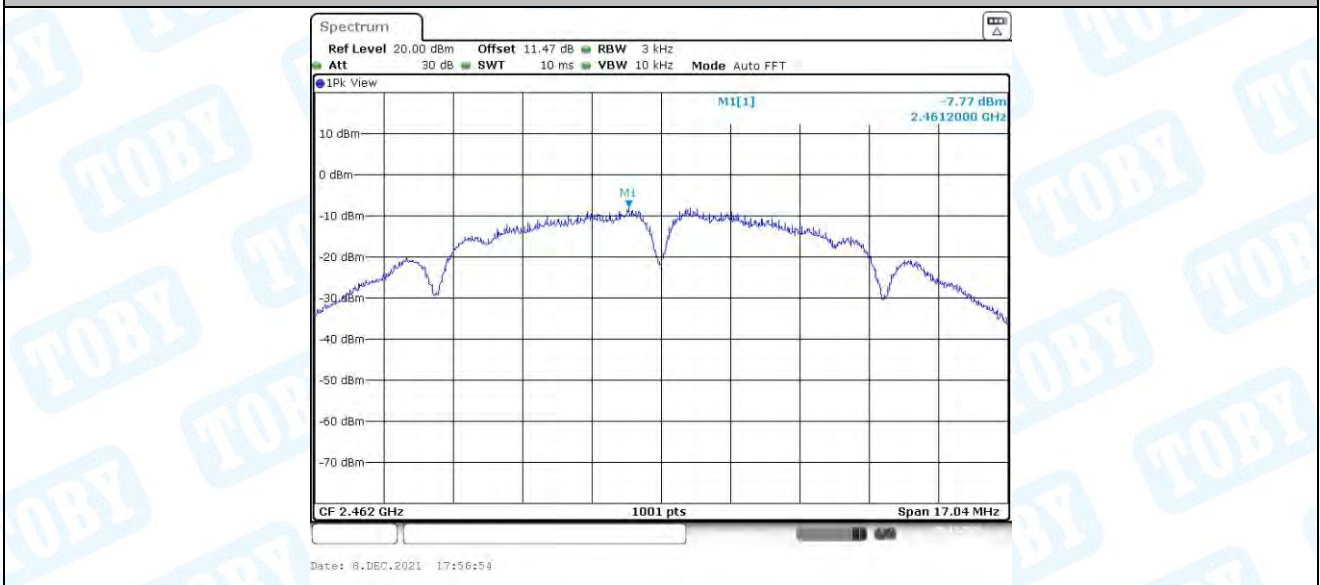
4.2. Test Graphs



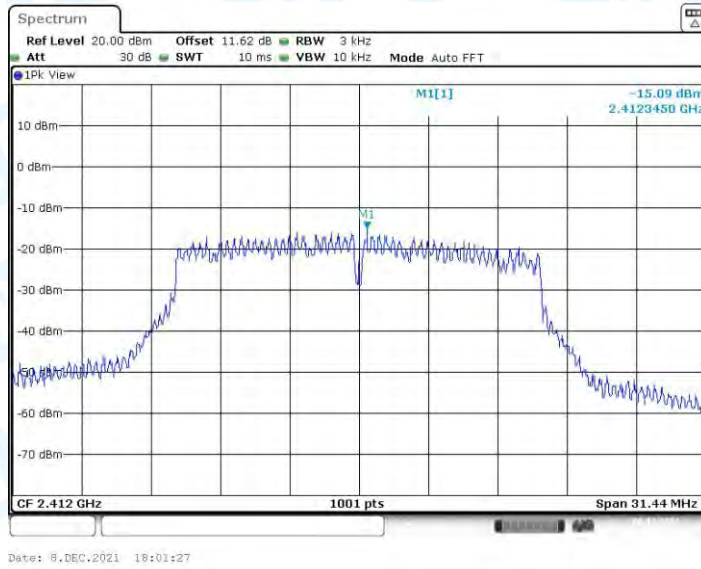
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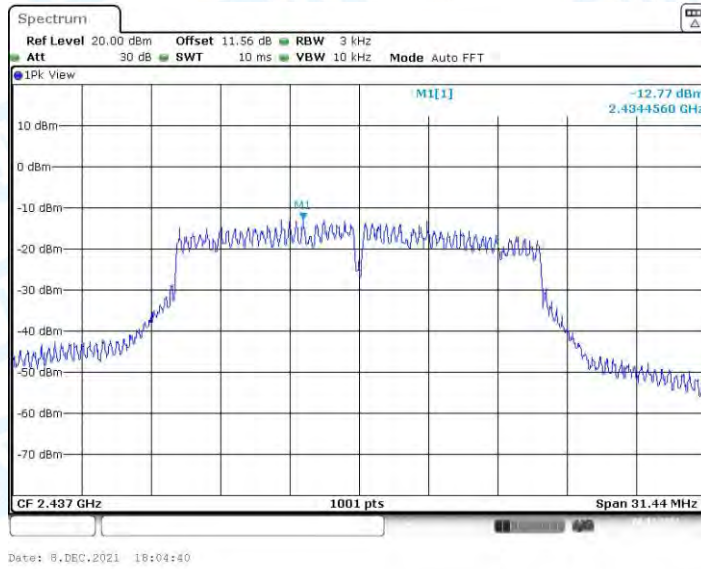
11B_Ant1_2437



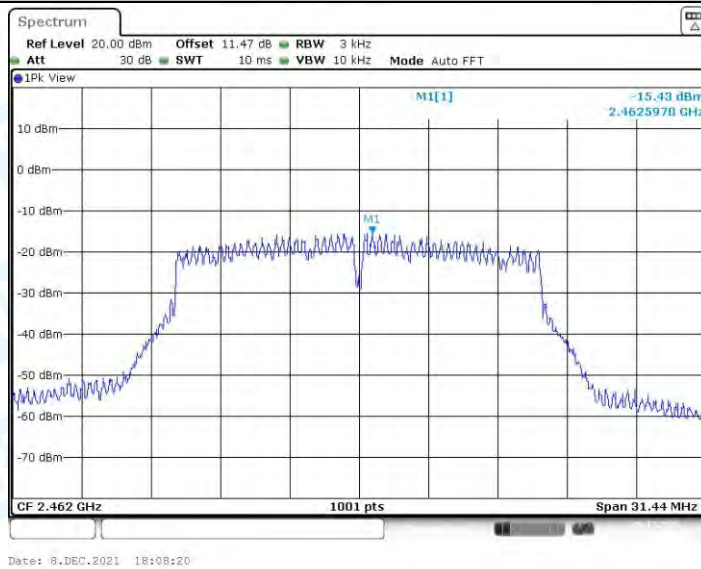
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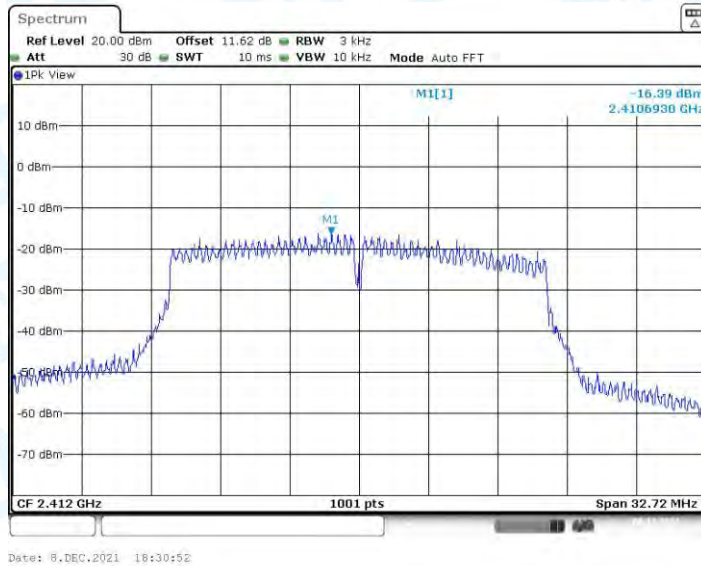
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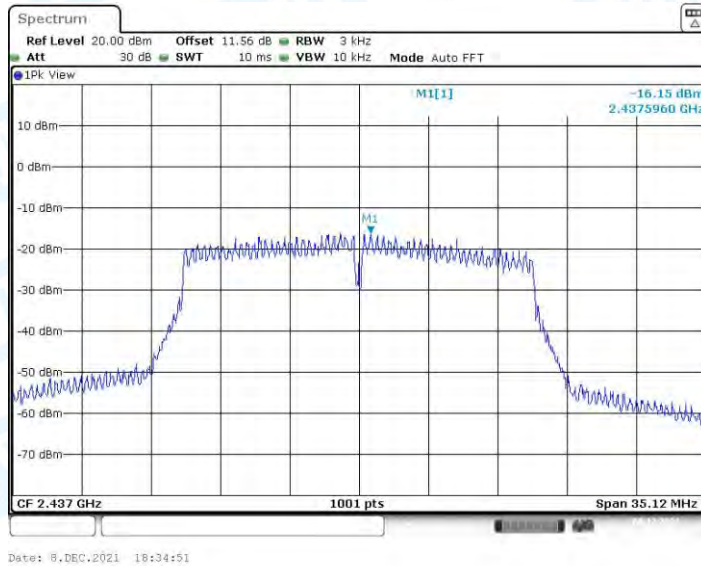
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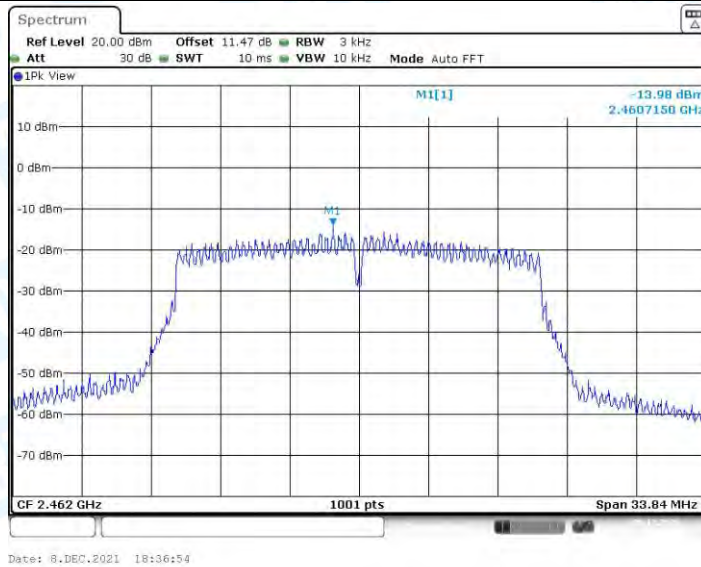
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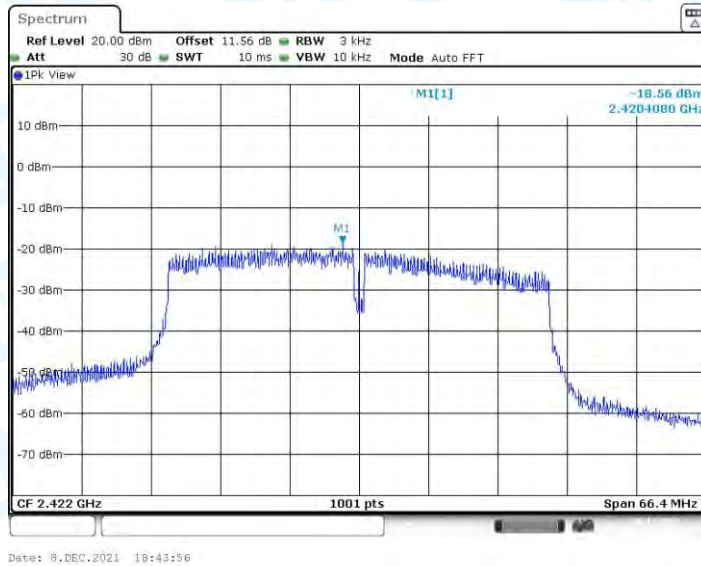
11N20SISO_Ant1_2412



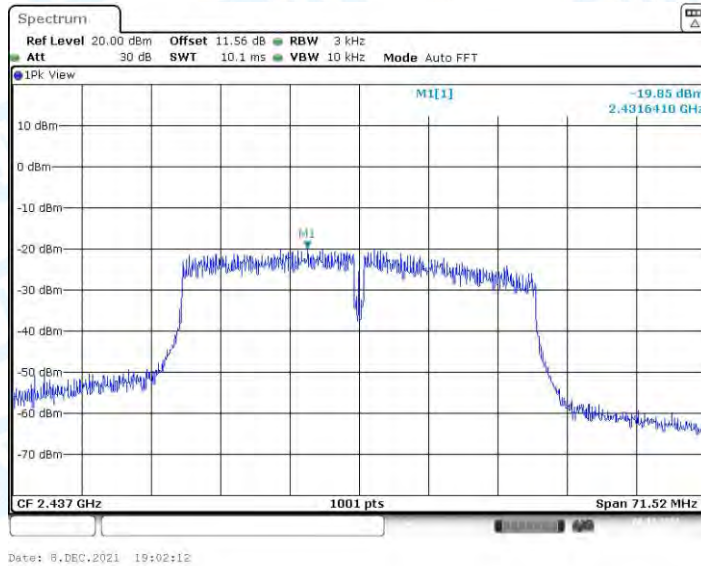
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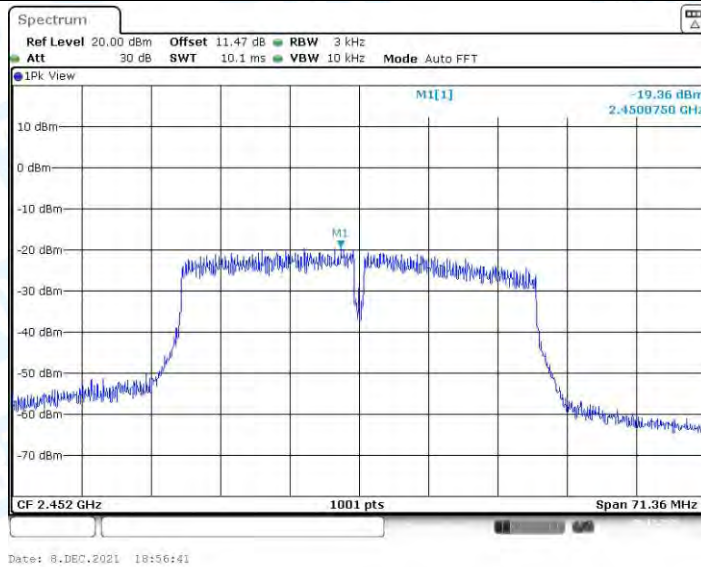
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



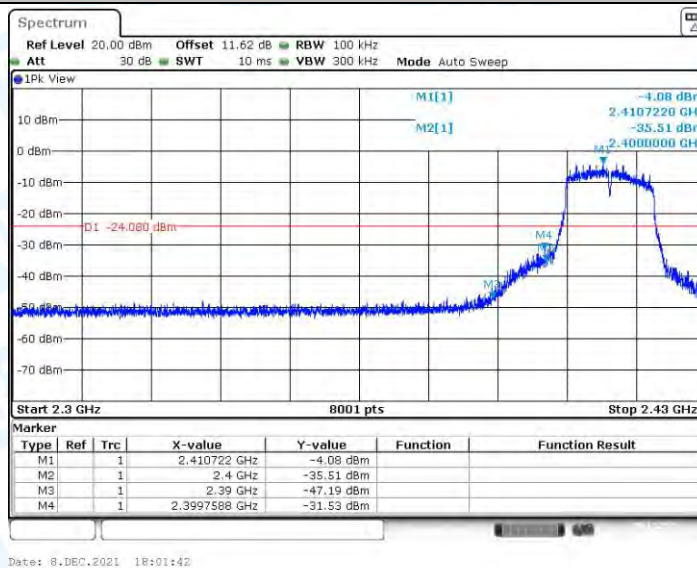
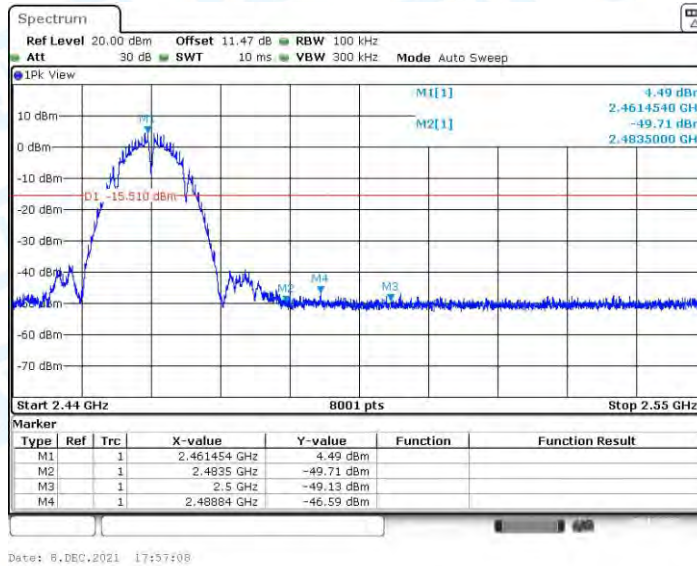
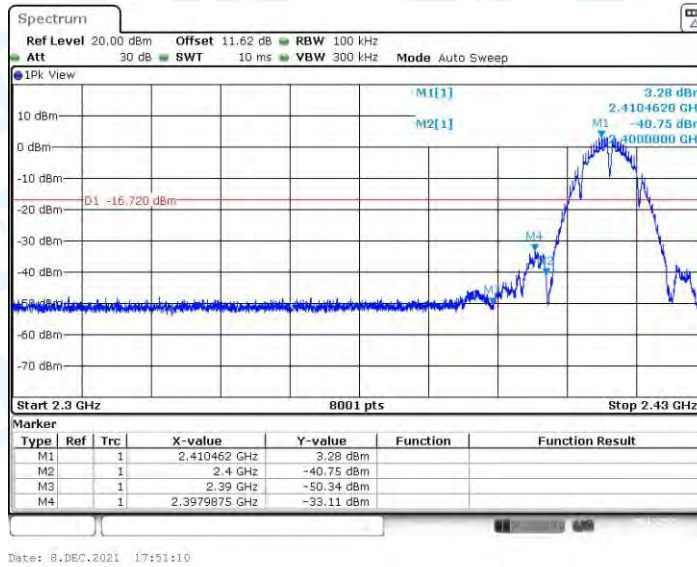
11N40SISO_Ant1_2452

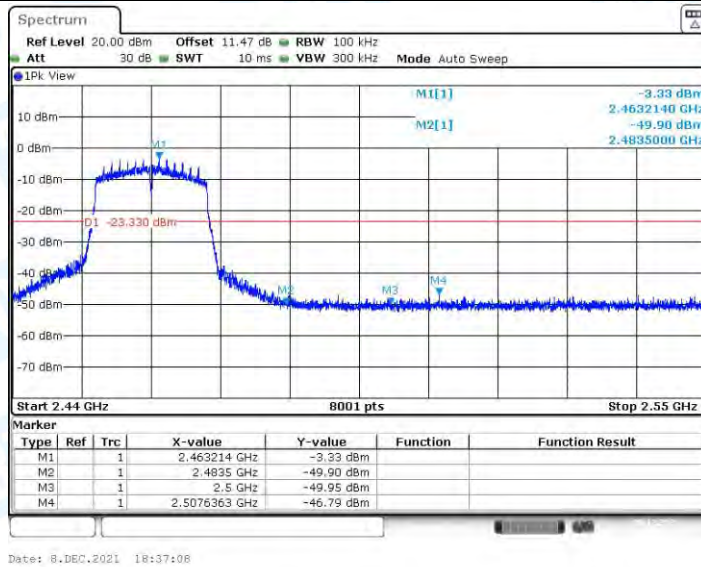
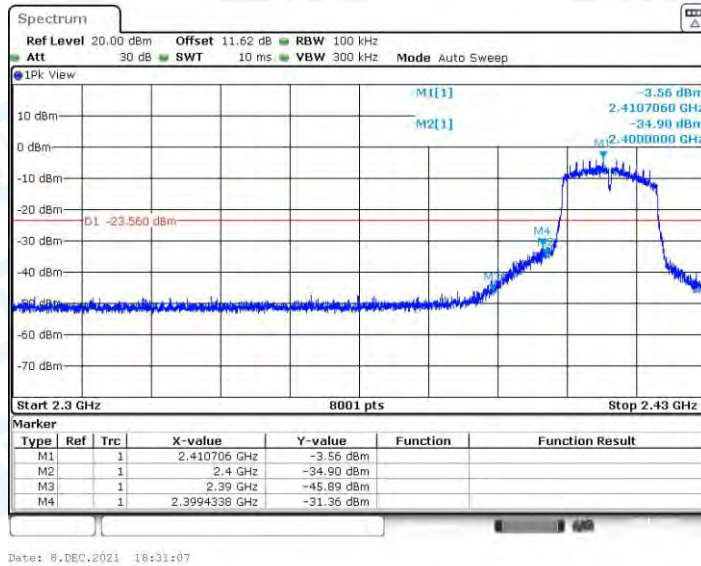
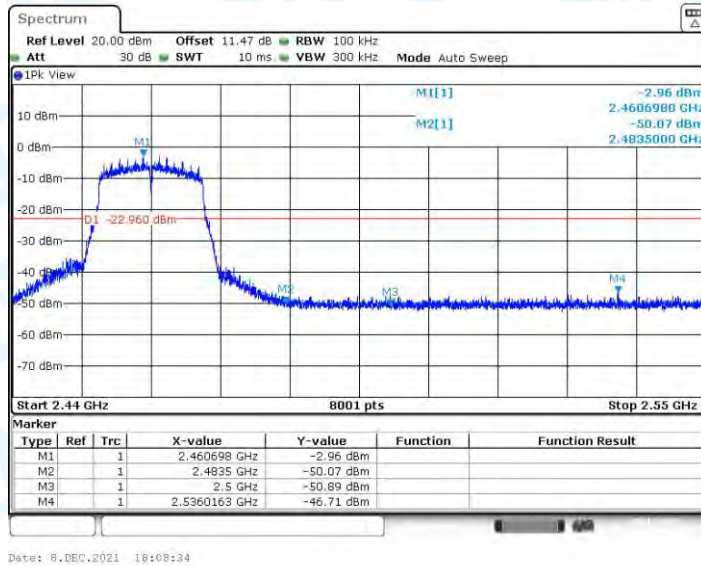
5. Band edge measurements

5.1. Test Result

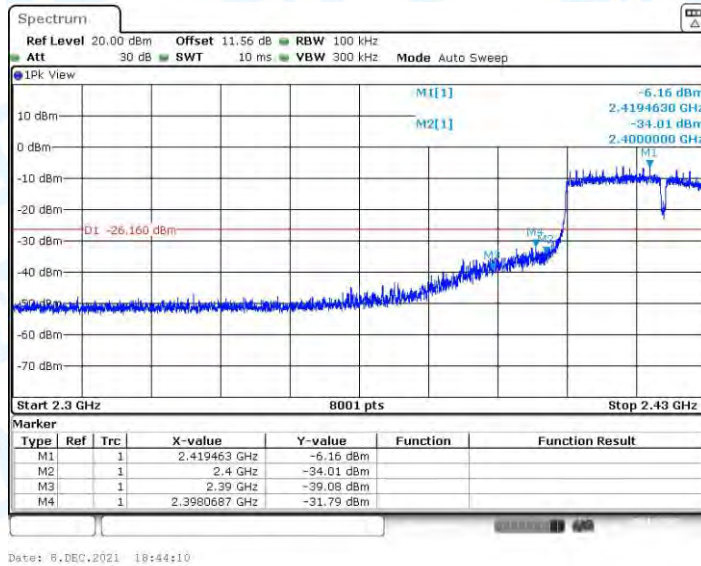
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	3.28	-33.11	≤-16.72	PASS
		High	2462	4.49	-46.59	≤-15.51	PASS
11G	Ant1	Low	2412	-4.08	-31.53	≤-24.08	PASS
		High	2462	-2.96	-46.71	≤-22.96	PASS
11N20SISO	Ant1	Low	2412	-3.56	-31.36	≤-23.56	PASS
		High	2462	-3.33	-46.79	≤-23.33	PASS
11N40SISO	Ant1	Low	2422	-6.16	-31.79	≤-26.16	PASS
		High	2452	-5.87	-44.53	≤-25.87	PASS

5.2. Test Graphs

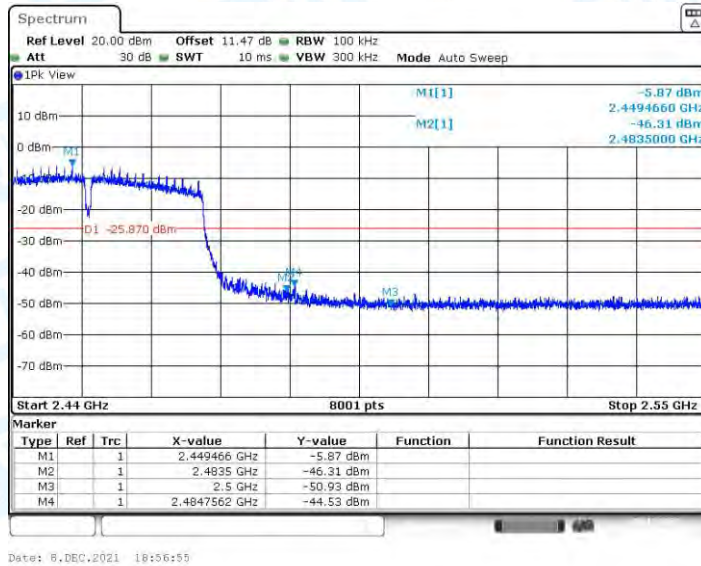




11N20SISO_Ant1_High_2462



11N40SISO_Ant1_Low_2422



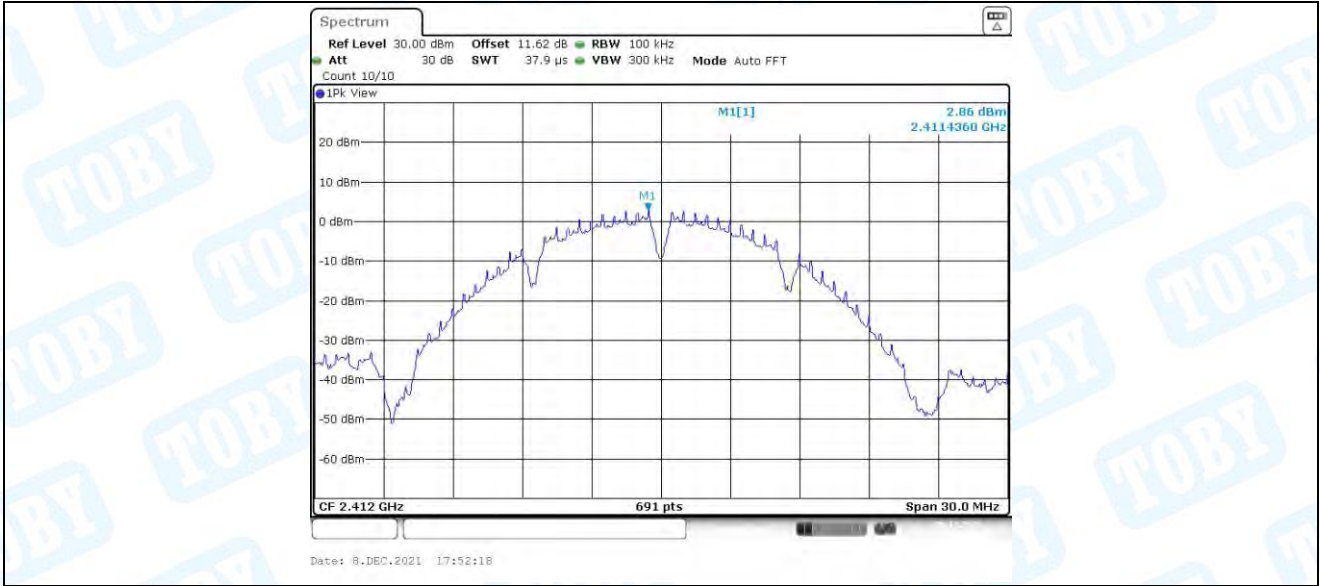
11N40SISO_Ant1_High_2452

6. Conducted Spurious Emission

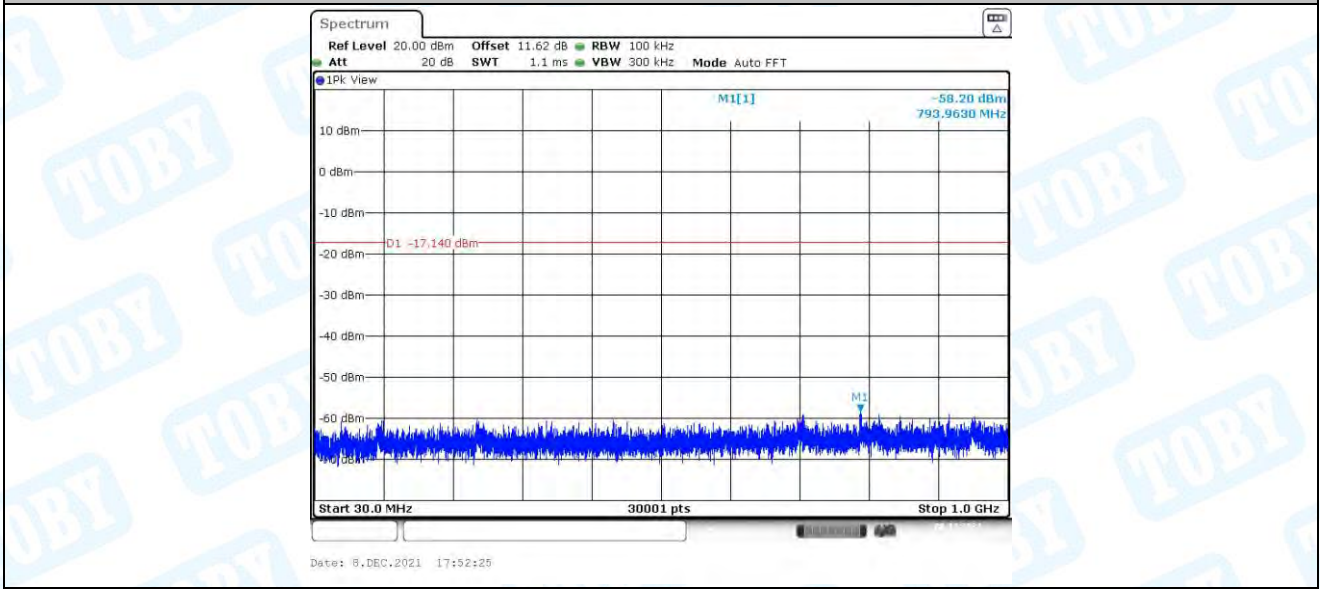
6.1. Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.86	2.86	---	PASS
			30~1000	2.86	-58.2	≤-17.14	PASS
			1000~26500	2.86	-49.72	≤-17.14	PASS
		2437	Reference	4.10	4.10	---	PASS
			30~1000	4.10	-57.81	≤-15.9	PASS
			1000~26500	4.10	-49.11	≤-15.9	PASS
		2462	Reference	4.50	4.50	---	PASS
			30~1000	4.50	-58.74	≤-15.5	PASS
			1000~26500	4.50	-49.25	≤-15.5	PASS
11G	Ant1	2412	Reference	-3.61	-3.61	---	PASS
			30~1000	-3.61	-59.37	≤-23.61	PASS
			1000~26500	-3.61	-49.09	≤-23.61	PASS
		2437	Reference	-1.08	-1.08	---	PASS
			30~1000	-1.08	-58.55	≤-21.08	PASS
			1000~26500	-1.08	-49.84	≤-21.08	PASS
		2462	Reference	-3.88	-3.88	---	PASS
			30~1000	-3.88	-59.03	≤-23.88	PASS
			1000~26500	-3.88	-50.2	≤-23.88	PASS
11N20SISO	Ant1	2412	Reference	-3.56	-3.56	---	PASS
			30~1000	-3.56	-58.45	≤-23.56	PASS
			1000~26500	-3.56	-49.96	≤-23.56	PASS
		2437	Reference	-3.54	-3.54	---	PASS
			30~1000	-3.54	-58.84	≤-23.54	PASS
			1000~26500	-3.54	-49.26	≤-23.54	PASS
		2462	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-58.48	≤-23.18	PASS
			1000~26500	-3.18	-48.86	≤-23.18	PASS
11N40SISO	Ant1	2422	Reference	-6.22	-6.22	---	PASS
			30~1000	-6.22	-58.46	≤-26.22	PASS
			1000~26500	-6.22	-49.45	≤-26.22	PASS
		2437	Reference	-7.08	-7.08	---	PASS
			30~1000	-7.08	-59.34	≤-27.08	PASS
			1000~26500	-7.08	-49.72	≤-27.08	PASS
		2452	Reference	-5.75	-5.75	---	PASS
			30~1000	-5.75	-58.27	≤-25.75	PASS
			1000~26500	-5.75	-49.79	≤-25.75	PASS

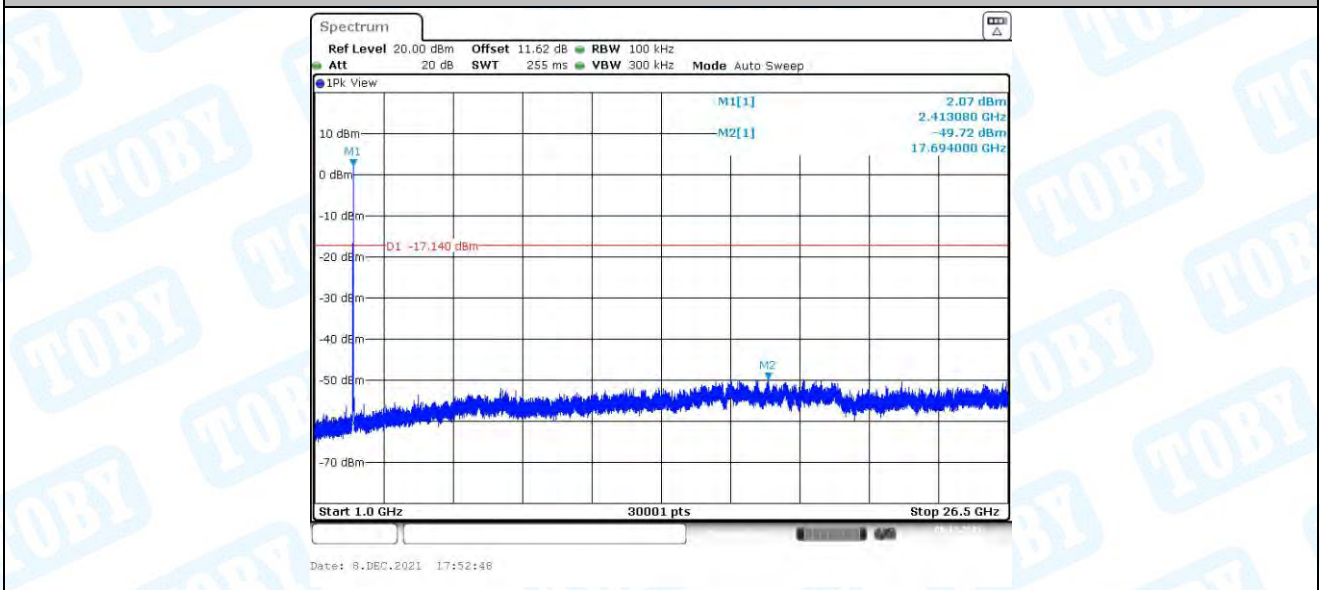
6.2. Test Graphs



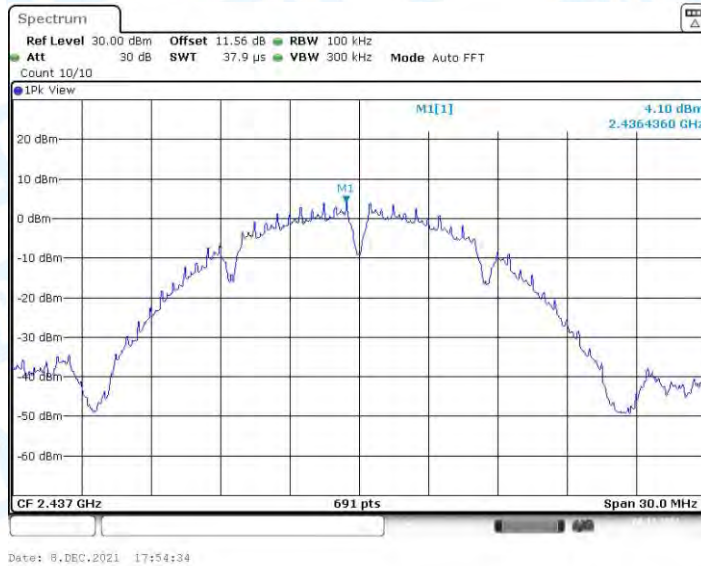
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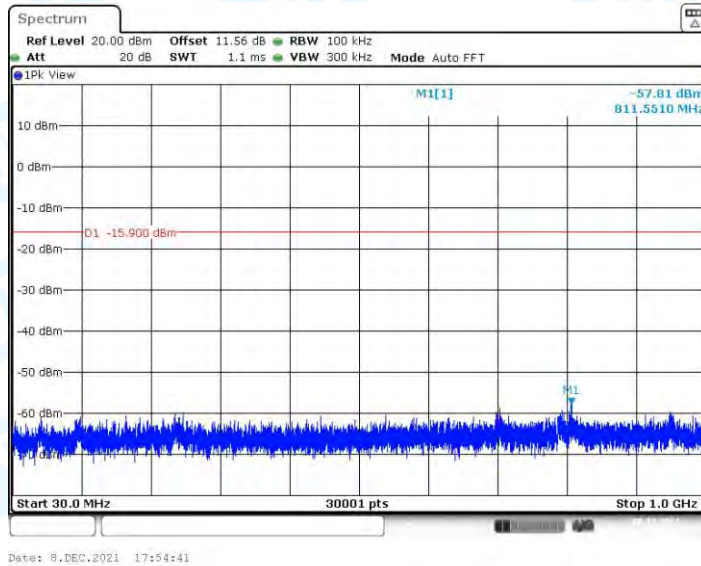
11B_Ant1_2412_30~1000



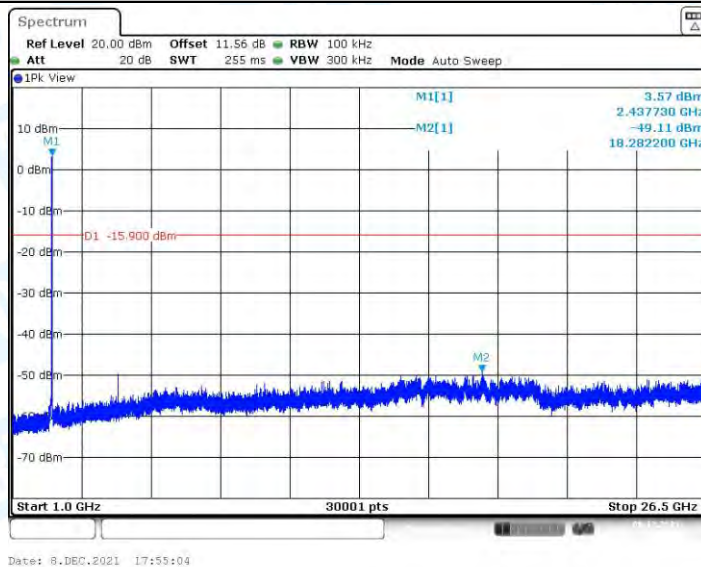
11B_Ant1_2412_1000~26500



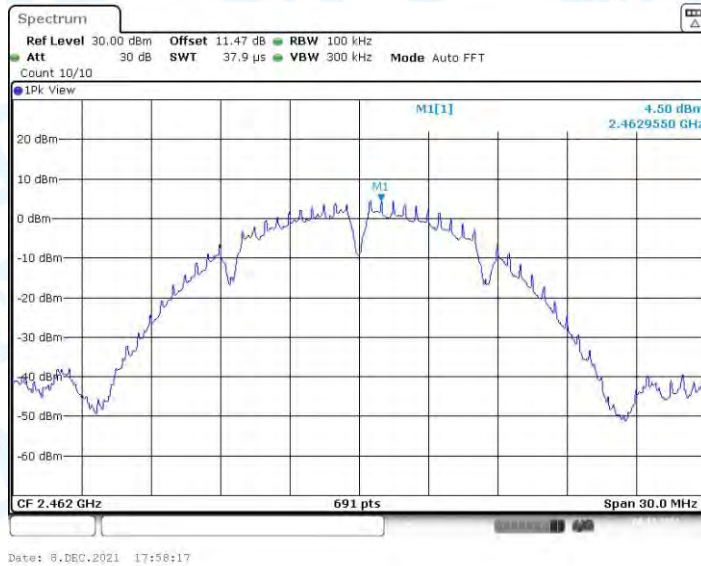
11B_Ant1_2437_0~Reference



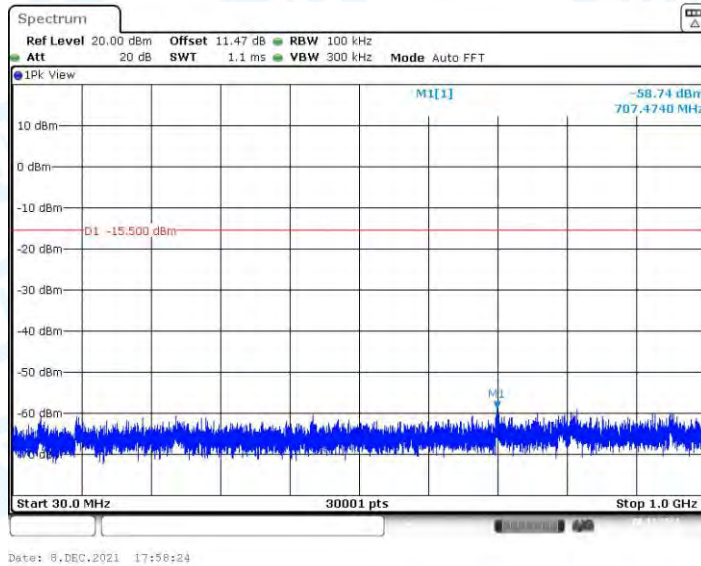
11B_Ant1_2437_30~1000



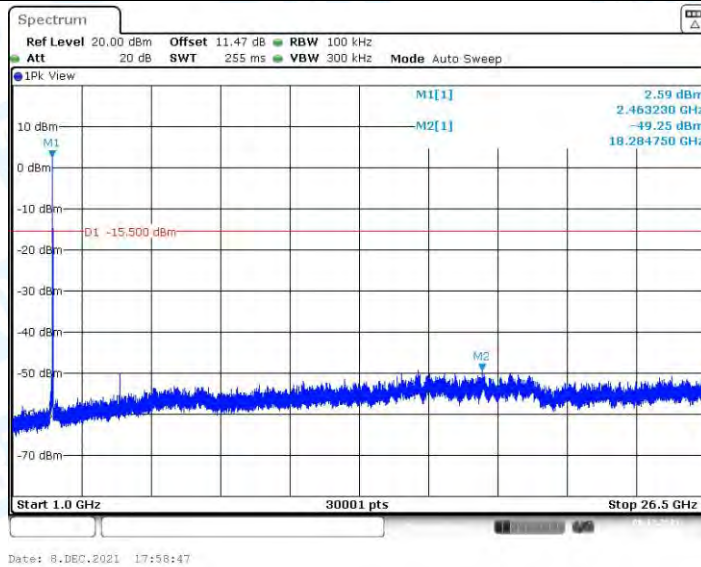
11B_Ant1_2437_1000~26500



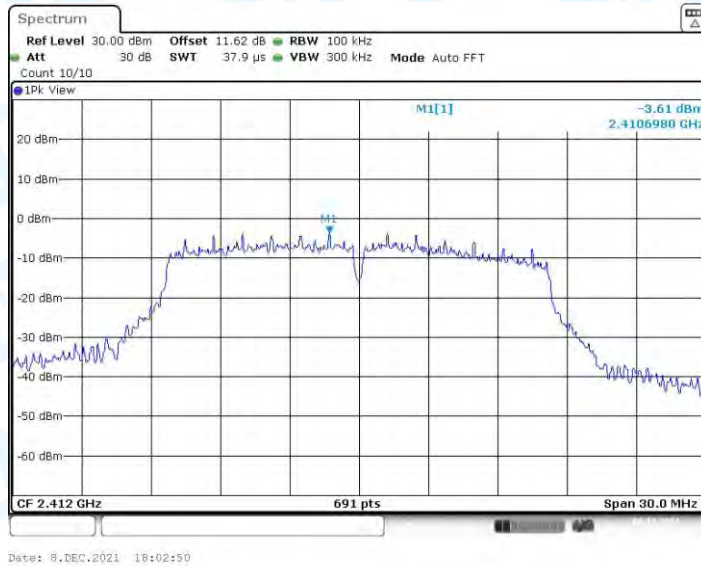
11B_Ant1_2462_0~Reference



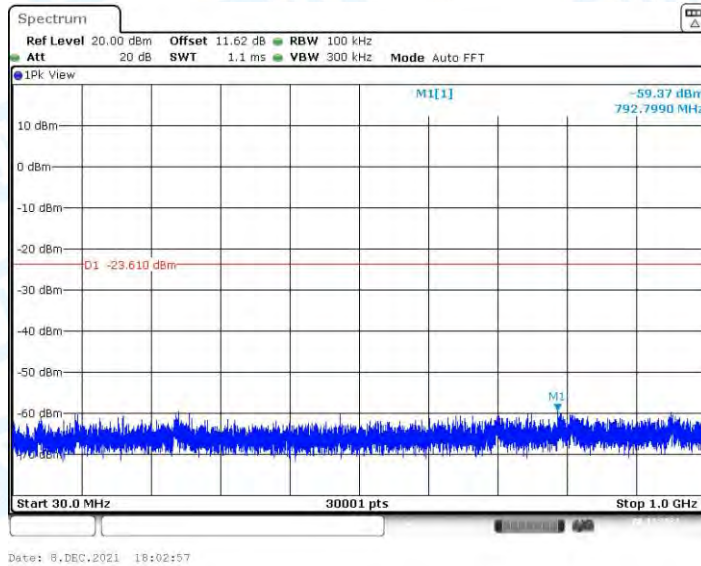
11B_Ant1_2462_30~1000



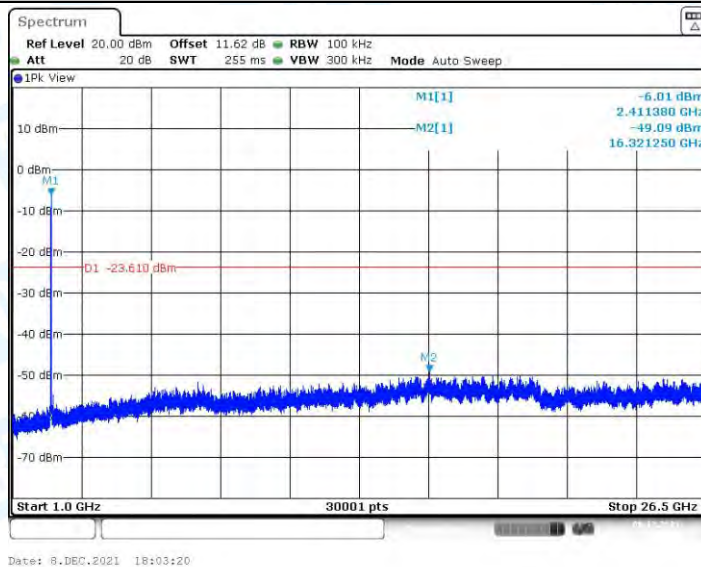
11B_Ant1_2462_1000~26500



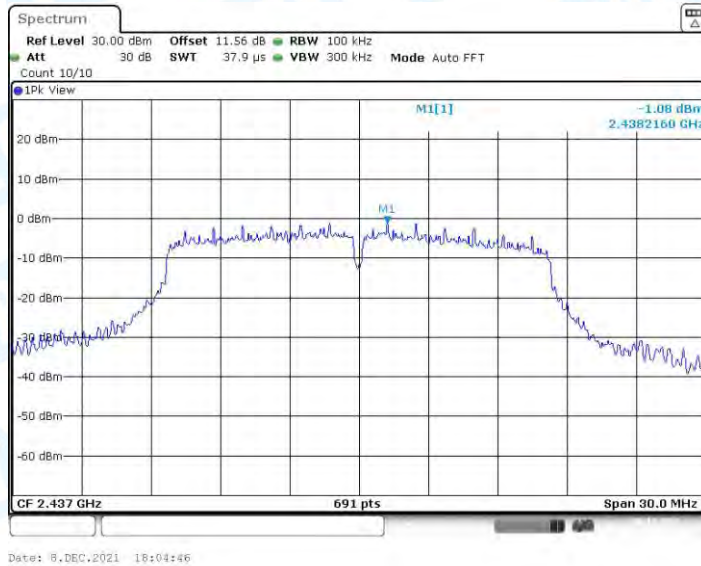
11G_Ant1_2412_0~Reference



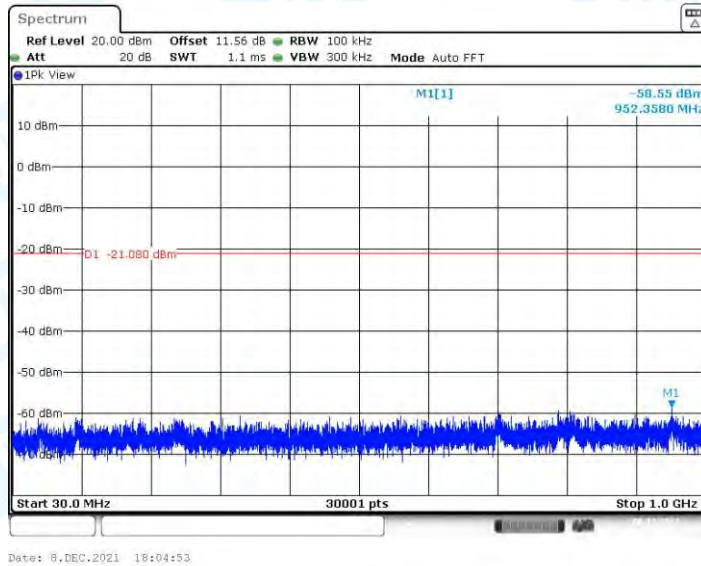
11G_Ant1_2412_30~1000



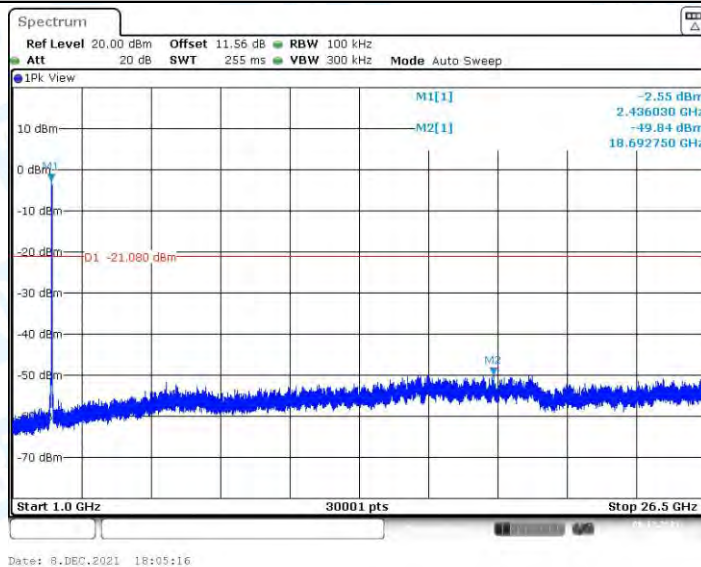
11G_Ant1_2412_1000~26500



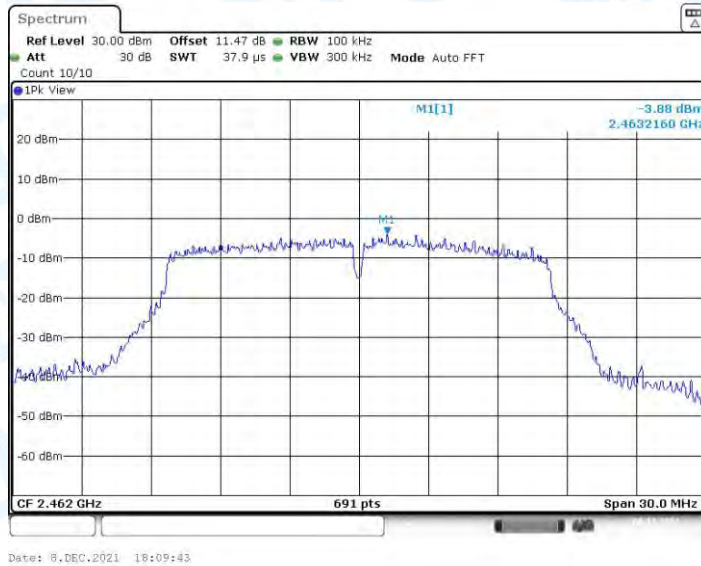
11G_Ant1_2437_0~Reference



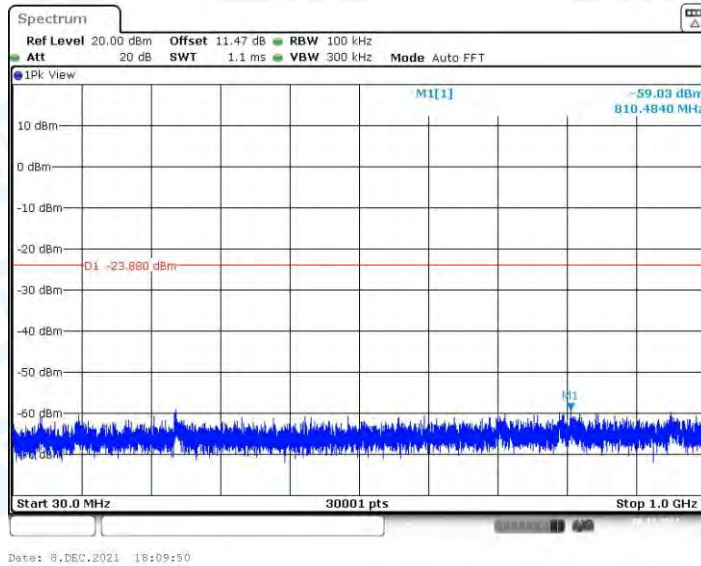
11G_Ant1_2437_30~1000



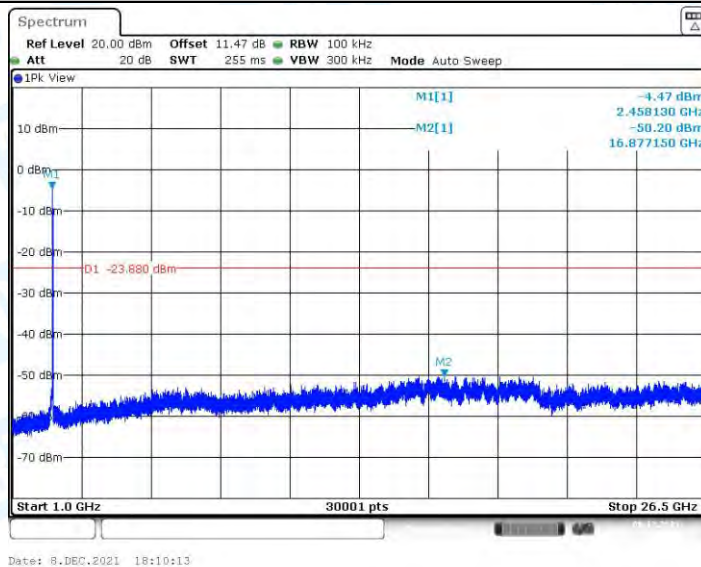
11G_Ant1_2437_1000~26500



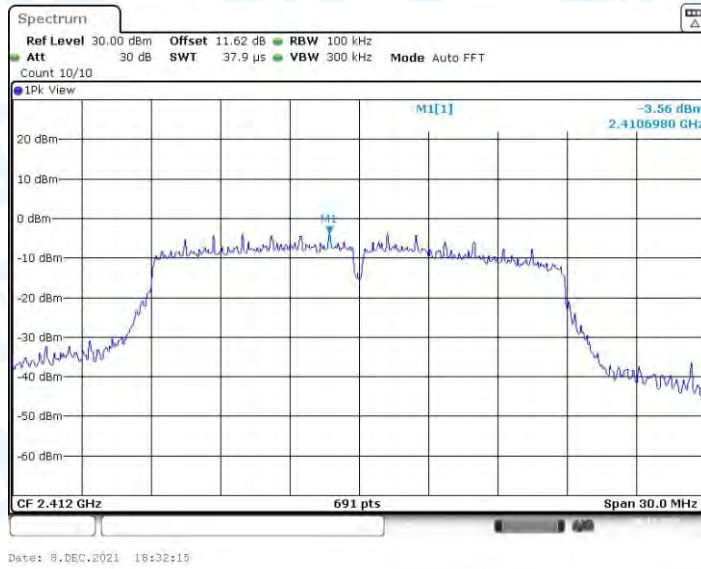
11G_Ant1_2462_0~Reference



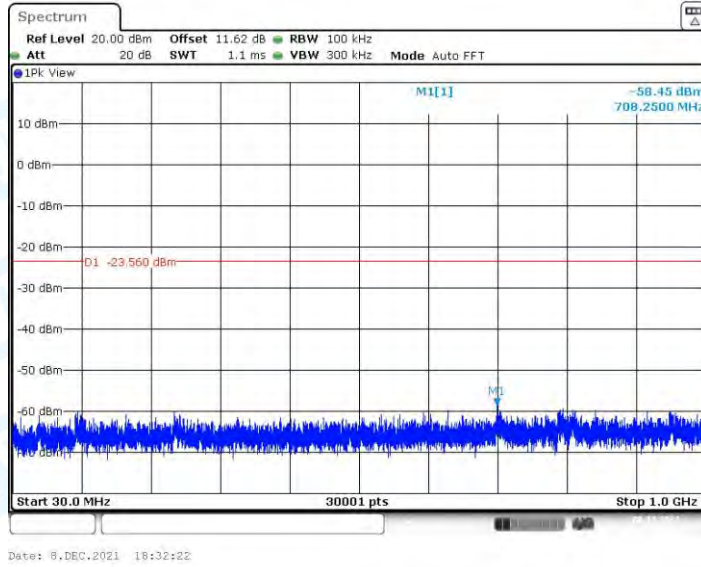
11G_Ant1_2462_30~1000



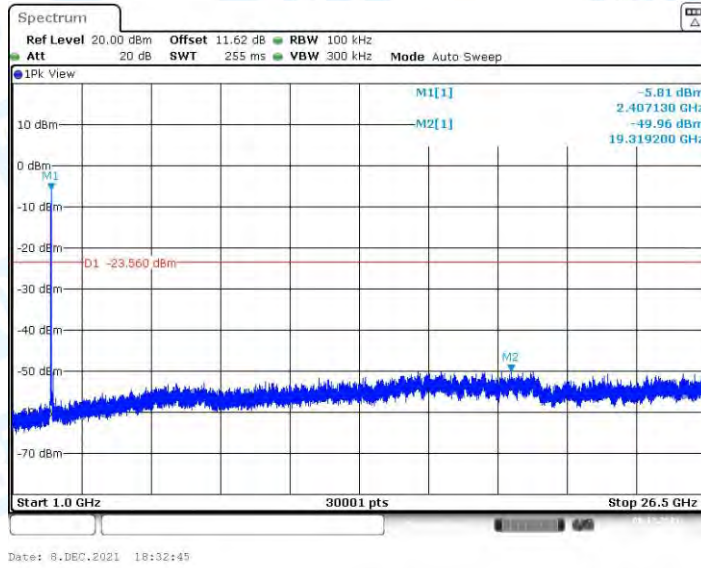
11G_Ant1_2462_1000~26500



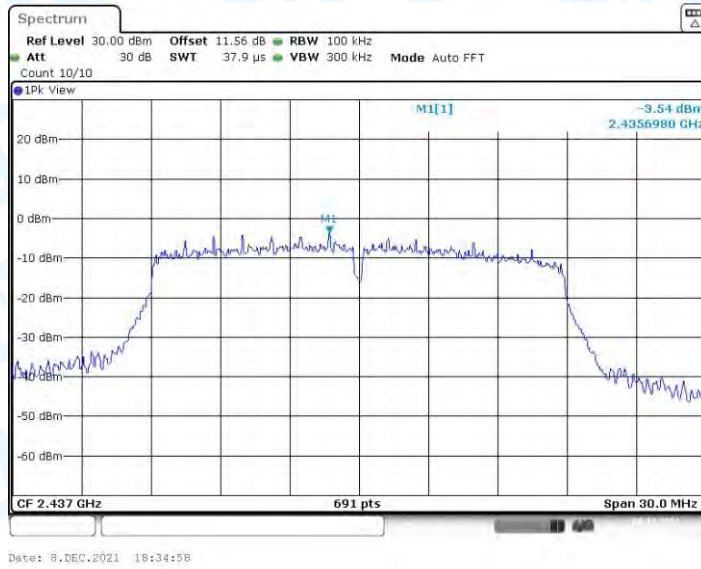
11N20SISO_Ant1_2412_0~Reference



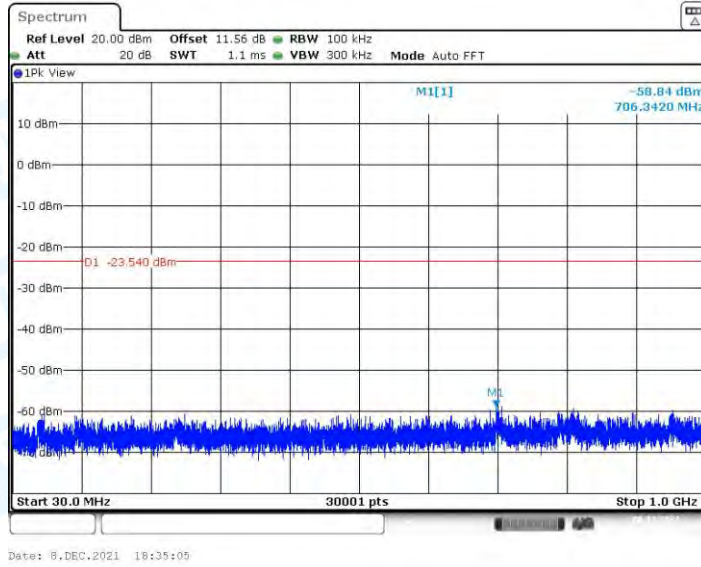
11N20SISO_Ant1_2412_30~1000



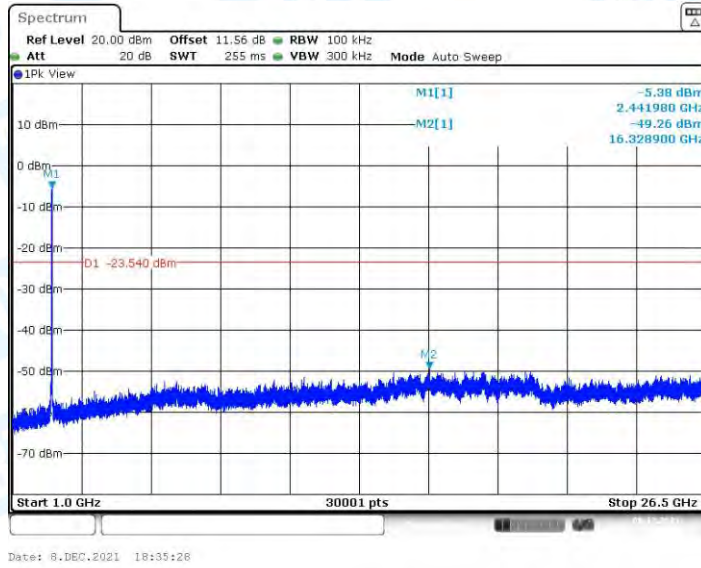
11N20SISO_Ant1_2412_1000~26500



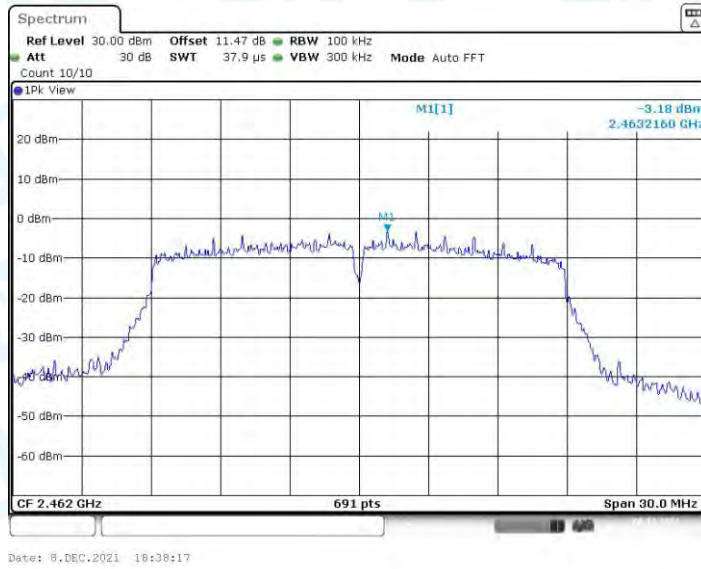
11N20SISO_Ant1_2437_0~Reference



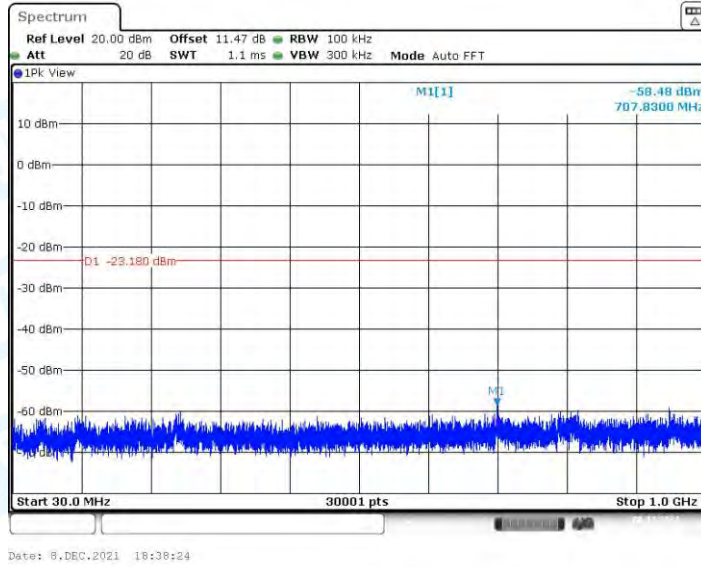
11N20SISO_Ant1_2437_30~1000



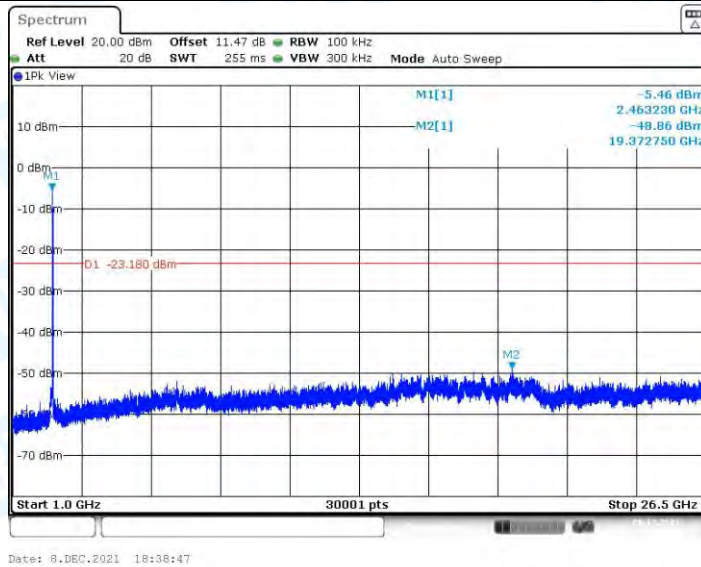
11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference



11N20SISO_Ant1_2462_30~1000

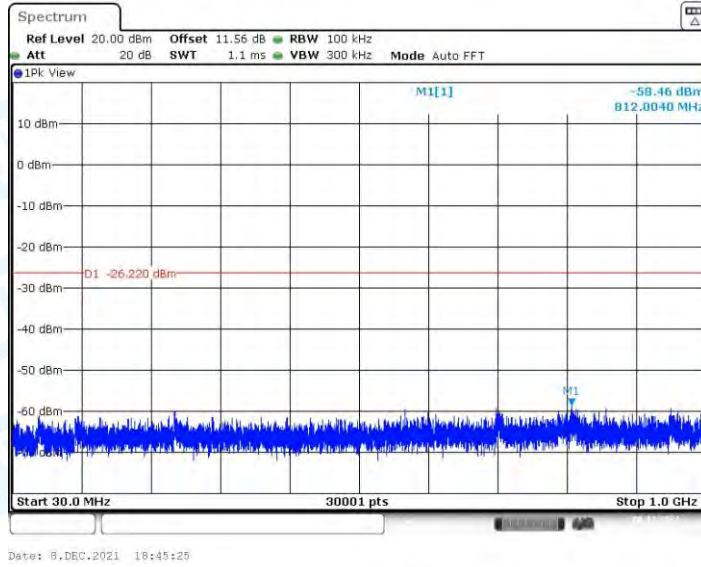


11N20SISO_Ant1_2462_1000~26500



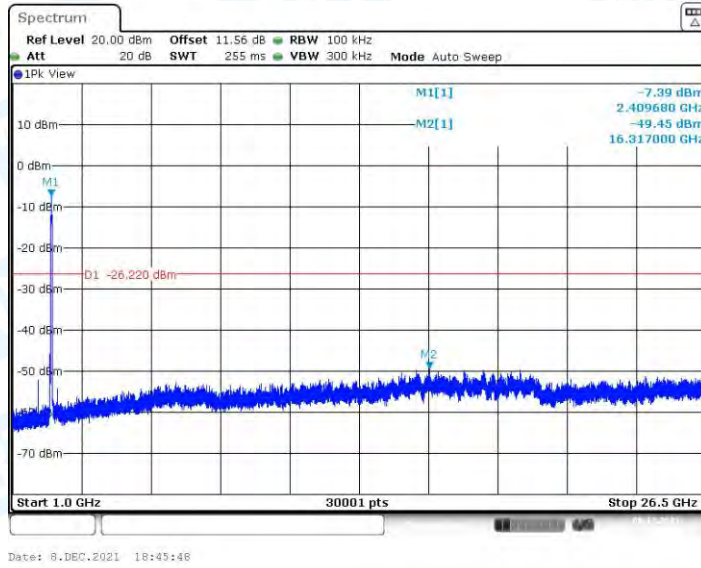
Date: 8. DEC. 2021 18:45:18

11N40SISO_Ant1_2422_0~Reference



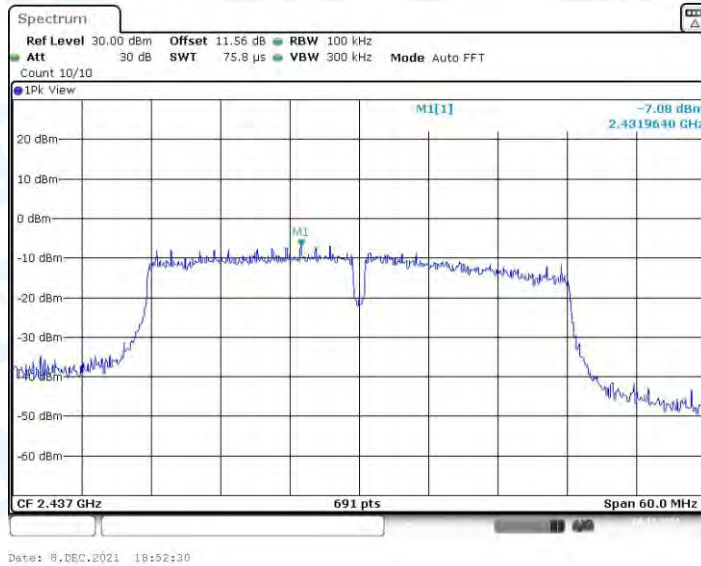
Date: 8. DEC. 2021 18:45:25

11N40SISO_Ant1_2422_30~1000

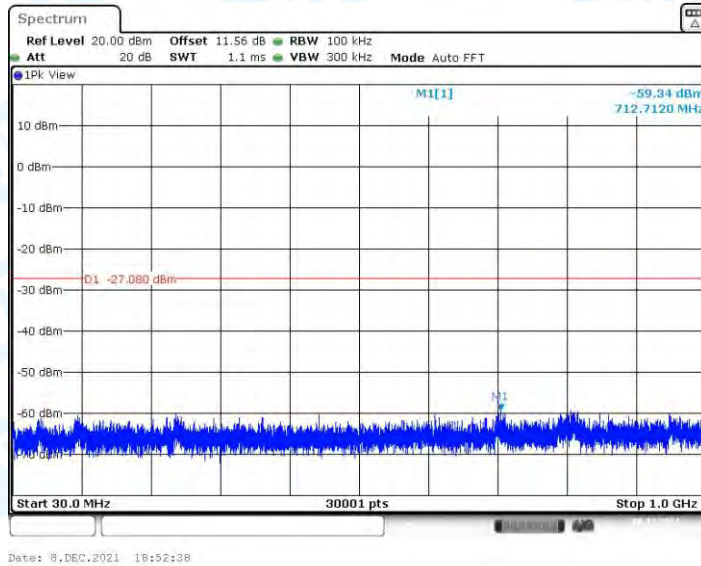


Date: 8. DEC. 2021 18:45:48

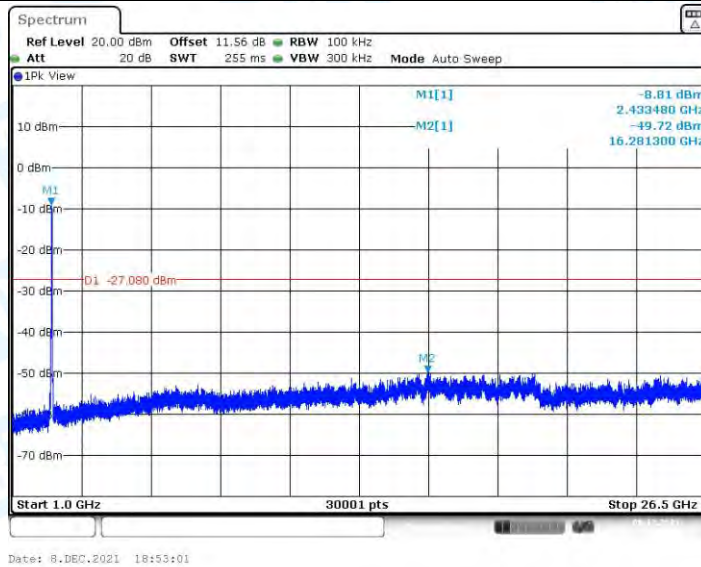
11N40SISO_Ant1_2422_1000~26500



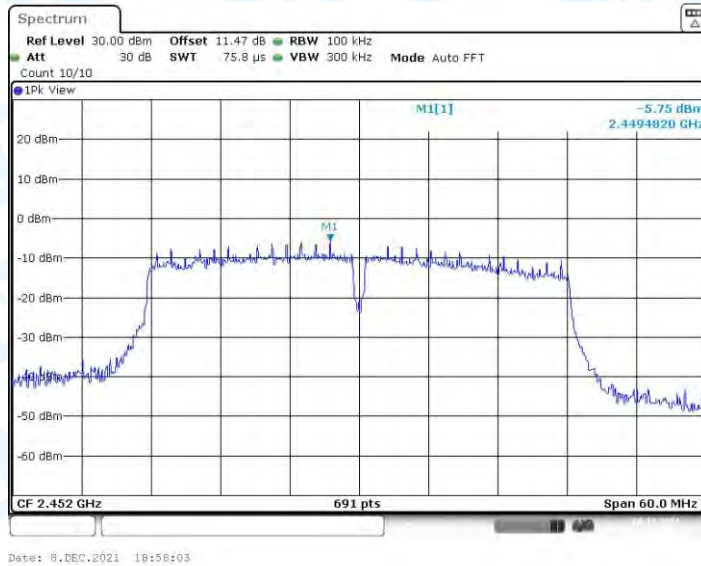
11N40SISO_Ant1_2437_0~Reference



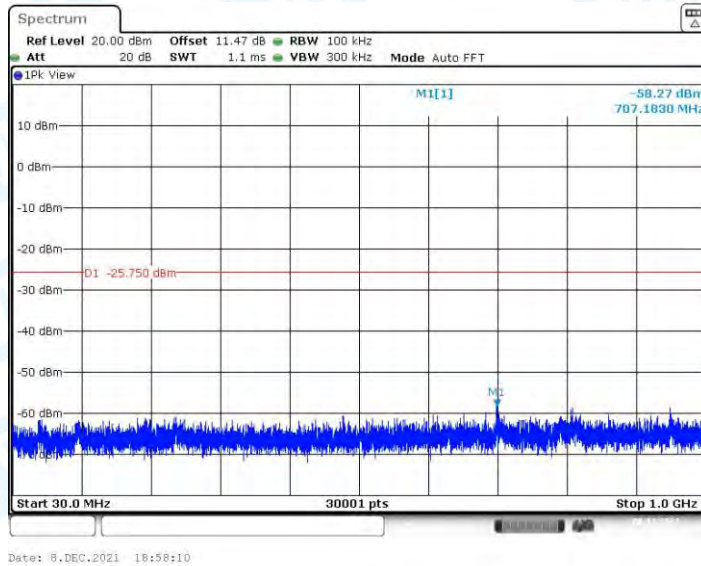
11N40SISO_Ant1_2437_30~1000



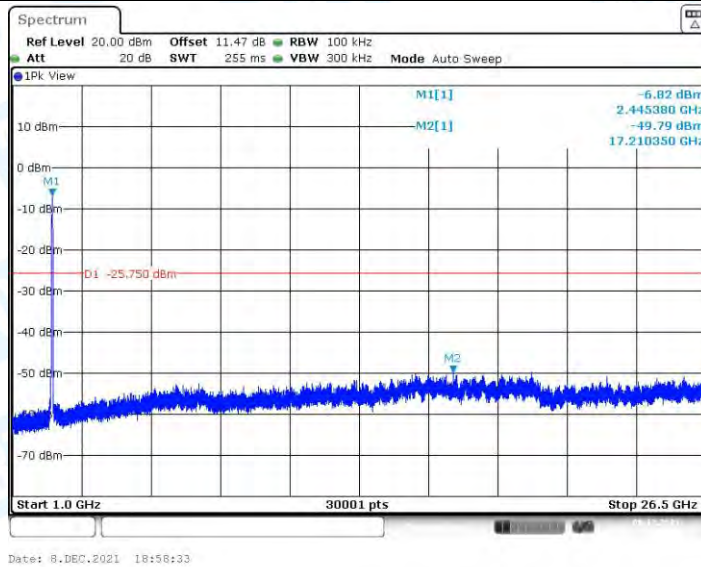
11N40SISO_Ant1_2437_1000~26500



11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500

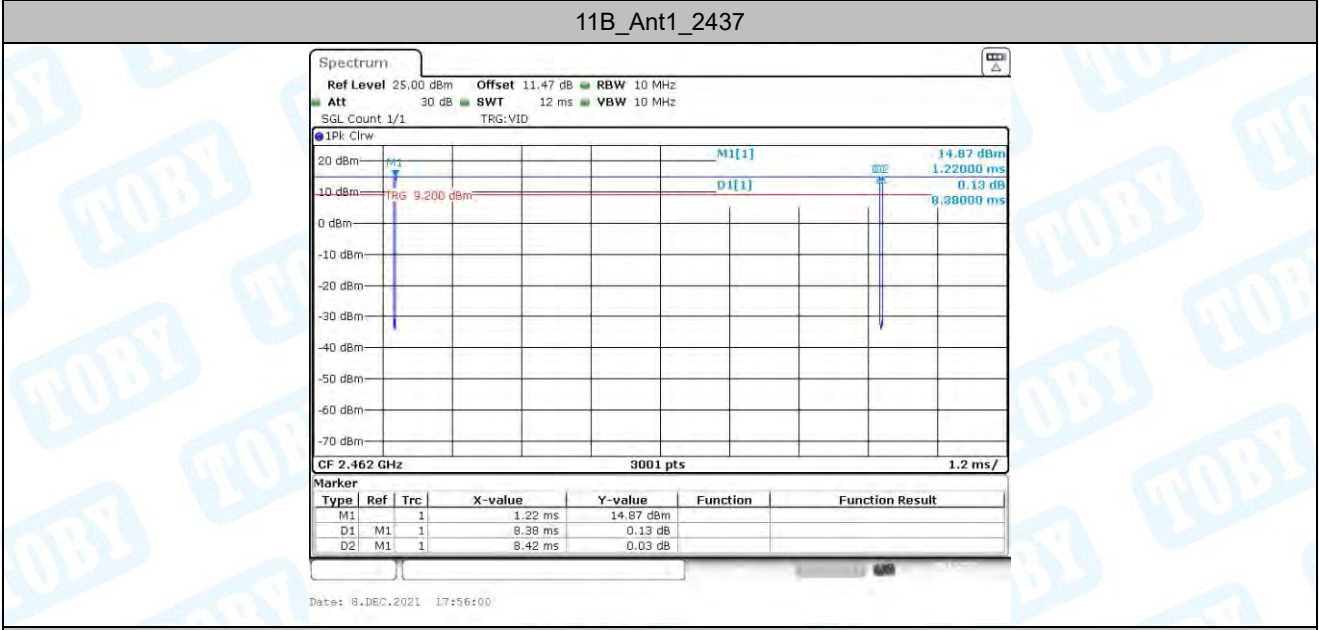
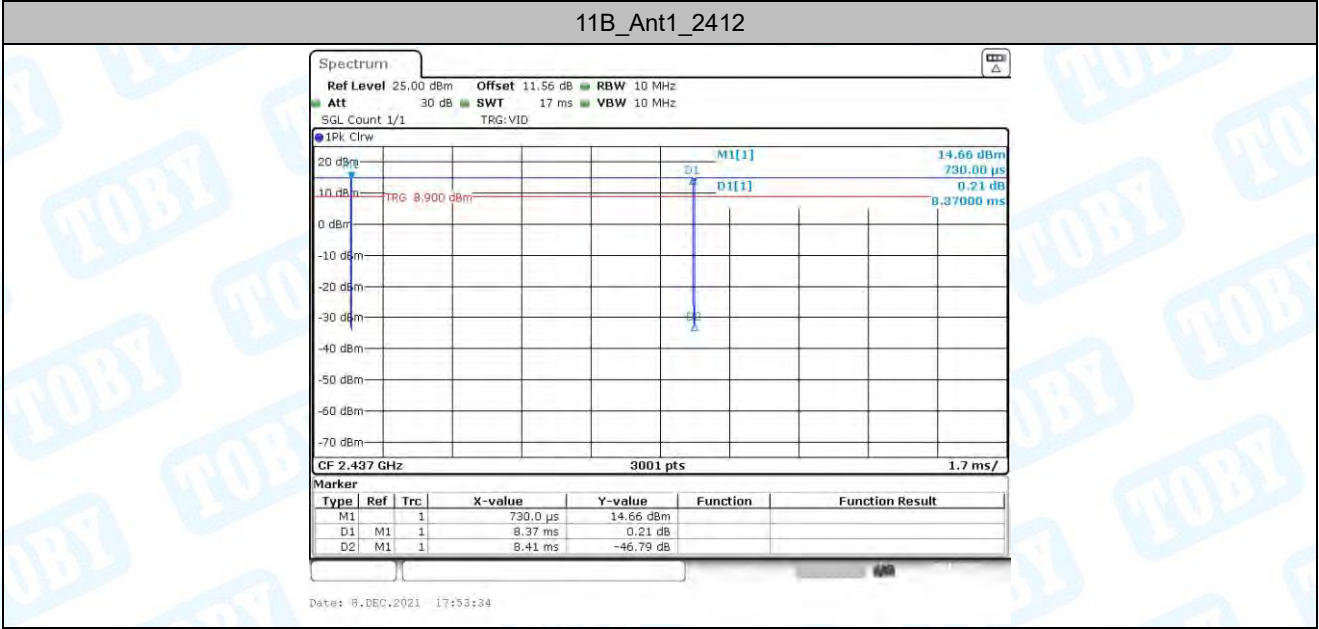
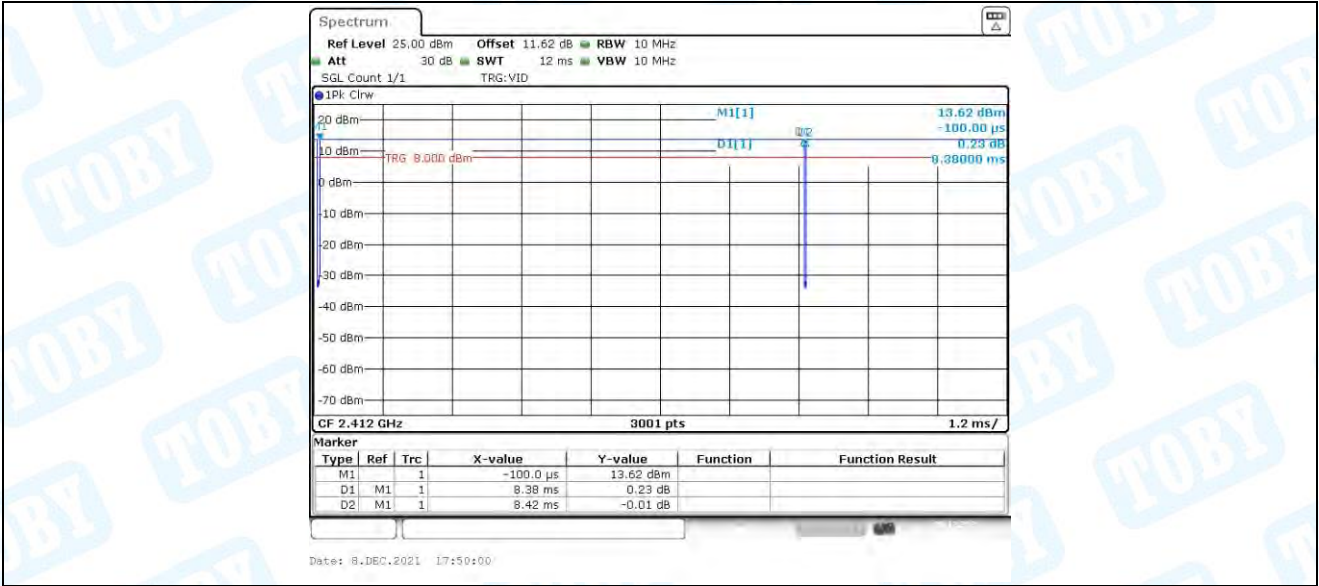
7. Duty Cycle

7.1. Test Result

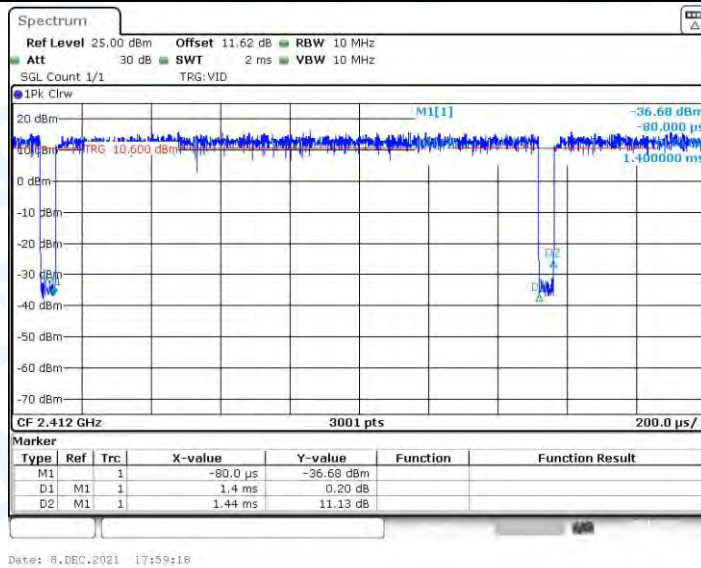
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [KHz]	Limit	Verdict
11B	Ant1	2412	8.38	8.42	99.52	0.119	---	PASS
		2437	8.37	8.41	99.52	0.119	---	PASS
		2462	8.38	8.42	99.52	0.119	---	PASS
11G	Ant1	2412	1.40	1.44	97.22	0.714	---	PASS
		2437	1.39	1.44	96.53	0.719	---	PASS
		2462	1.39	1.43	97.20	0.719	---	PASS
11N20SISO	Ant1	2412	1.31	1.35	97.04	0.763	---	PASS
		2437	1.30	1.34	97.01	0.769	---	PASS
		2462	1.30	1.34	97.01	0.769	---	PASS
11N40SISO	Ant1	2422	0.65	0.69	94.20	1.538	---	PASS
		2437	0.64	0.69	92.75	1.563	---	PASS
		2452	0.64	0.69	92.75	1.563	---	PASS

Note: 1/T=1/Transmission Duration

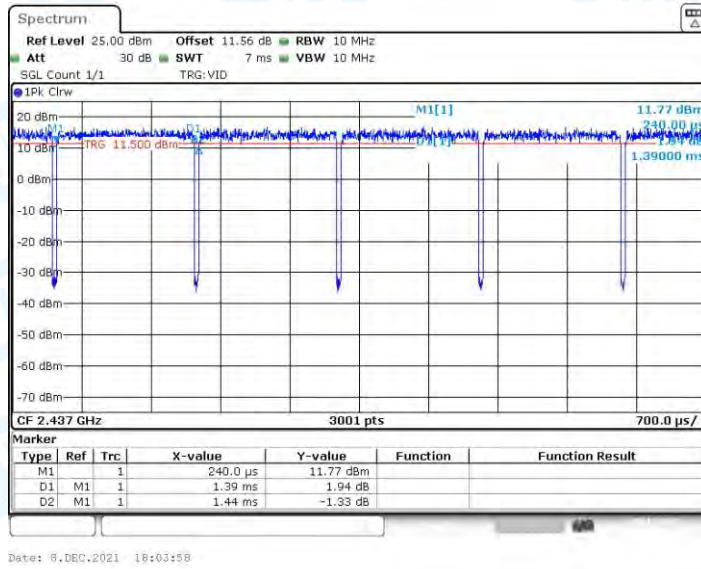
7.2. Test Graphs



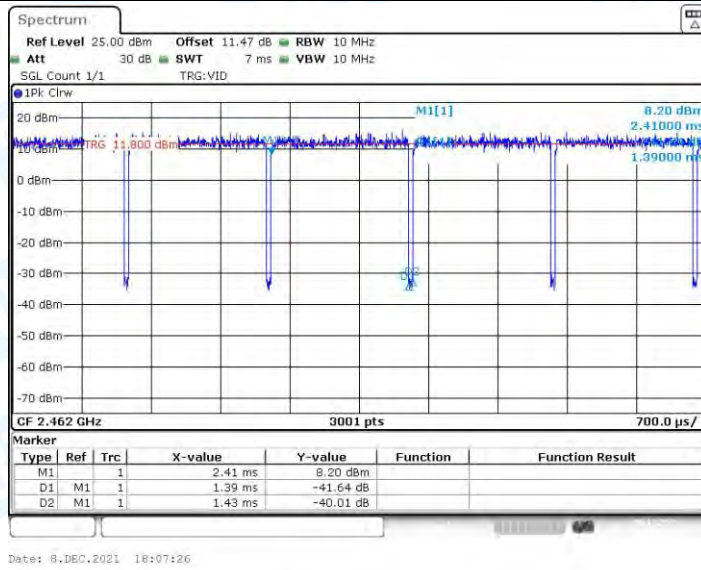
11B_Ant1_2462



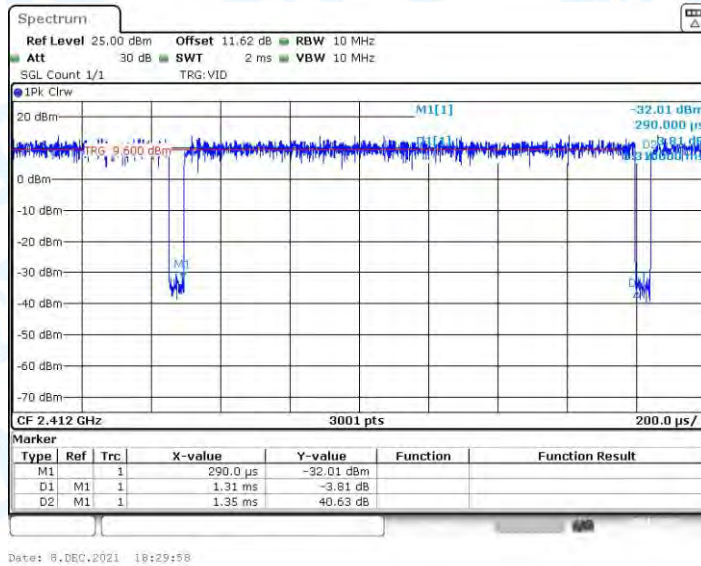
11G_Ant1_2412



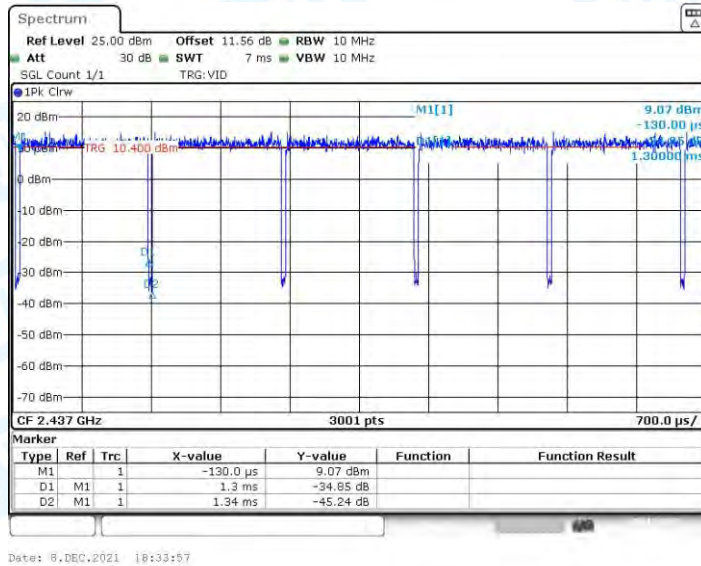
11G_Ant1_2437



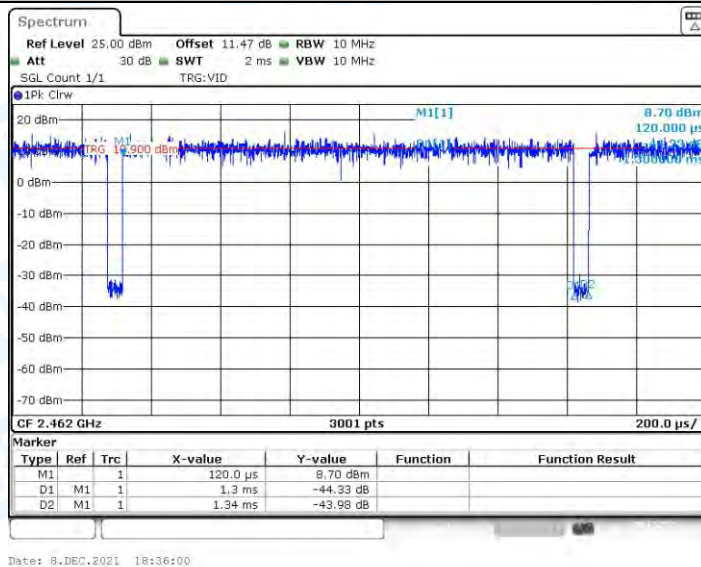
11G_Ant1_2462



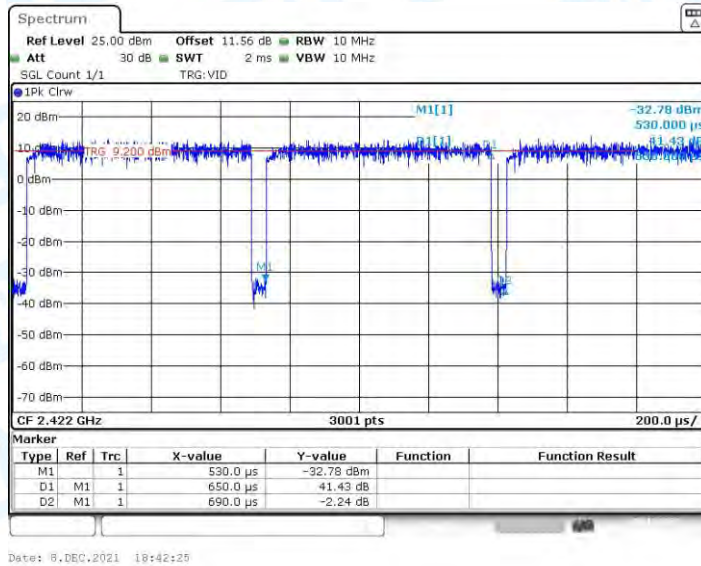
11N20SISO_Ant1_2412



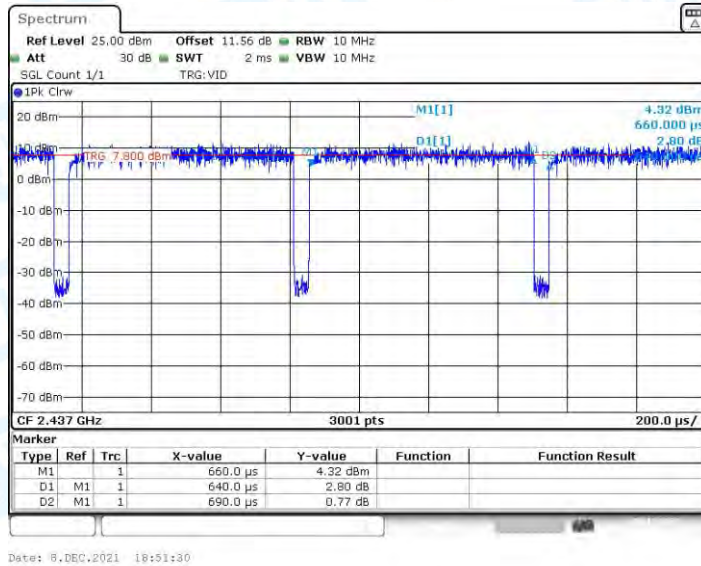
11N20SISO_Ant1_2437



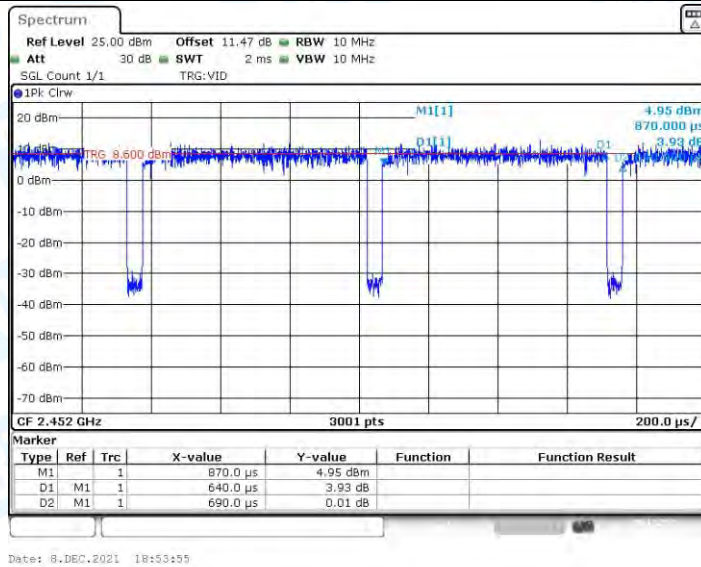
11N20SISO_Ant1_2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

8. Emissions in Restricted Bands

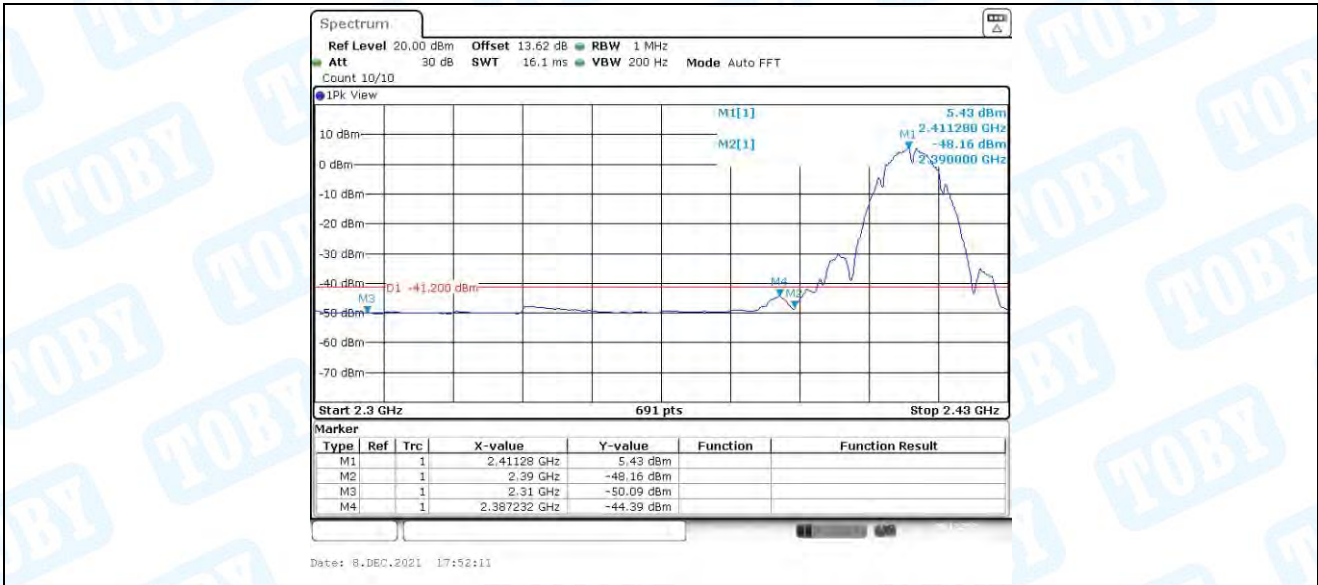
8.1. Test Result

TestMode	Antenna	ChName	Channel	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	AV	2310.000	-50.09	≤-41.20	PASS
				AV	2387.232	-44.39	≤-41.20	PASS
				AV	2390.000	-48.16	≤-41.20	PASS
				Peak	2310.000	-39.68	≤-21.20	PASS
				Peak	2386.290	-34.93	≤-21.20	PASS
		Peak	2390.000	-38.2	≤-21.20	PASS		
		High	2462	AV	2483.500	-48.42	≤-41.20	PASS
				AV	2487.348	-48.28	≤-41.20	PASS
				AV	2500.000	-49.27	≤-41.20	PASS
				Peak	2483.500	-38.23	≤-21.20	PASS
Peak	2486.391			-35.4	≤-21.20	PASS		
Peak	2500.000	-36.59	≤-21.20	PASS				
11G	Ant1	Low	2412	AV	2310.000	-49.66	≤-41.20	PASS
				AV	2389.870	-46.06	≤-41.20	PASS
				AV	2390.000	-45.67	≤-41.20	PASS
				Peak	2310.000	-38.66	≤-21.20	PASS
				Peak	2389.870	-33.21	≤-21.20	PASS
		Peak	2390.000	-32.78	≤-21.20	PASS		
		High	2462	AV	2483.500	-47.88	≤-41.20	PASS
				AV	2483.841	-47.86	≤-41.20	PASS
				AV	2500.000	-48.74	≤-41.20	PASS
				Peak	2483.500	-36.13	≤-21.20	PASS
Peak	2483.522			-36.13	≤-21.20	PASS		
Peak	2500.000	-38.91	≤-21.20	PASS				
11N20SISO	Ant1	Low	2412	AV	2310.000	-49.65	≤-41.20	PASS
				AV	2389.870	-44.78	≤-41.20	PASS
				AV	2390.000	-44.6	≤-41.20	PASS
				Peak	2310.000	-39.21	≤-21.20	PASS
				Peak	2388.928	-26.22	≤-21.20	PASS
		Peak	2390.000	-26.86	≤-21.20	PASS		
		High	2462	AV	2483.500	-47.49	≤-41.20	PASS
				AV	2483.522	-47.49	≤-41.20	PASS
				AV	2500.000	-48.68	≤-41.20	PASS
				Peak	2483.500	-36.07	≤-21.20	PASS
Peak	2484.957			-35.24	≤-21.20	PASS		
Peak	2500.000	-37.62	≤-21.20	PASS				
11N40SISO	Ant1	Low	2422	AV	2310.000	-49.41	≤-41.20	PASS
				AV	2389.304	-45.23	≤-41.20	PASS
				AV	2390.000	-45.15	≤-41.20	PASS
				Peak	2310.000	-39.54	≤-21.20	PASS
				Peak	2378.942	-33.06	≤-21.20	PASS
		Peak	2390.000	-34.33	≤-21.20	PASS		
		High	2452	AV	2483.500	-45.93	≤-41.20	PASS
				AV	2483.522	-45.93	≤-41.20	PASS
				AV	2500.000	-48.29	≤-41.20	PASS
				Peak	2483.500	-34.64	≤-21.20	PASS
Peak	2484.797			-34.14	≤-21.20	PASS		
Peak	2500.000	-37.44	≤-21.20	PASS				

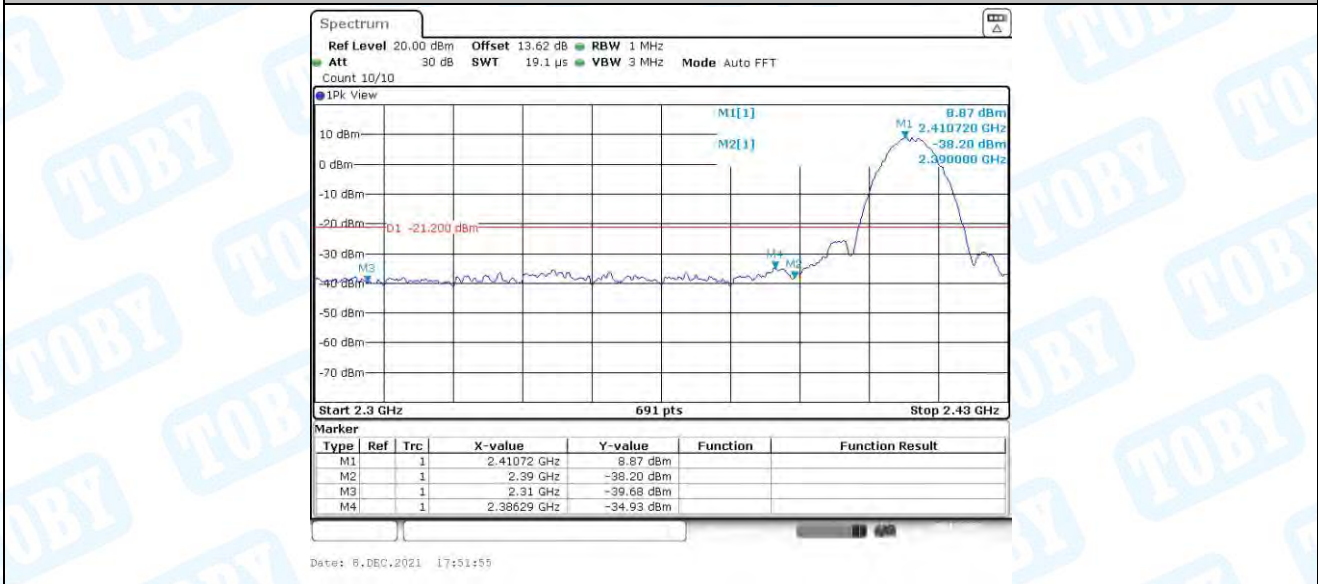
Note:

- The Antenna Gain is compensated in the graph.
- The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a) or RSS-Gen 8.10. The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

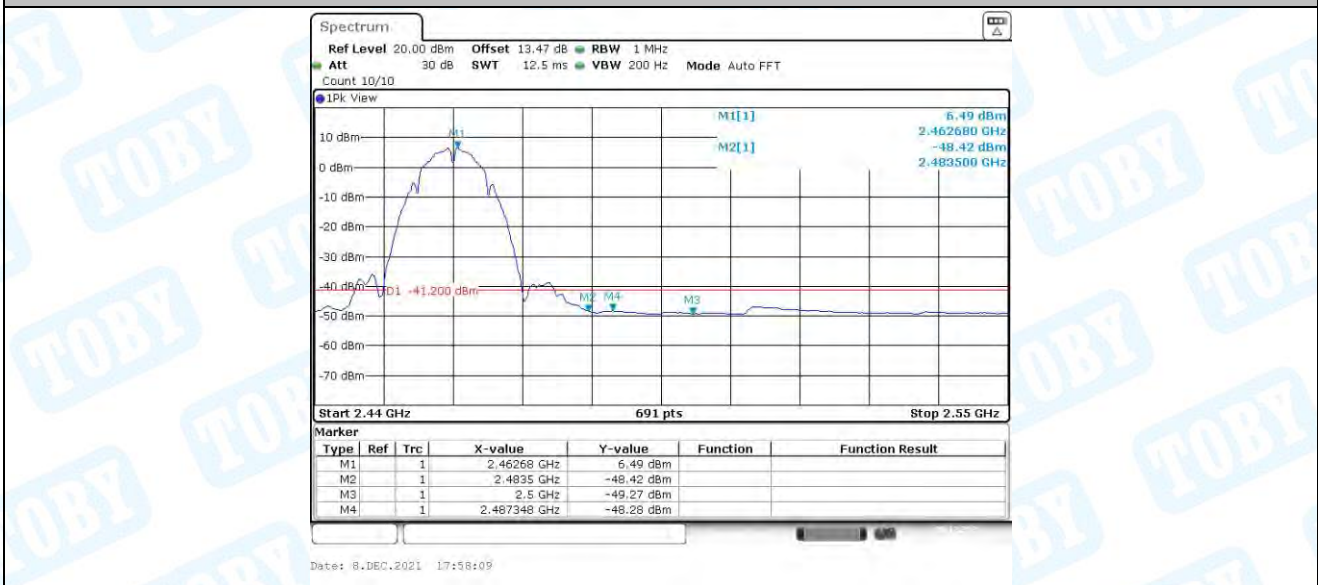
8.2. Test Graphs



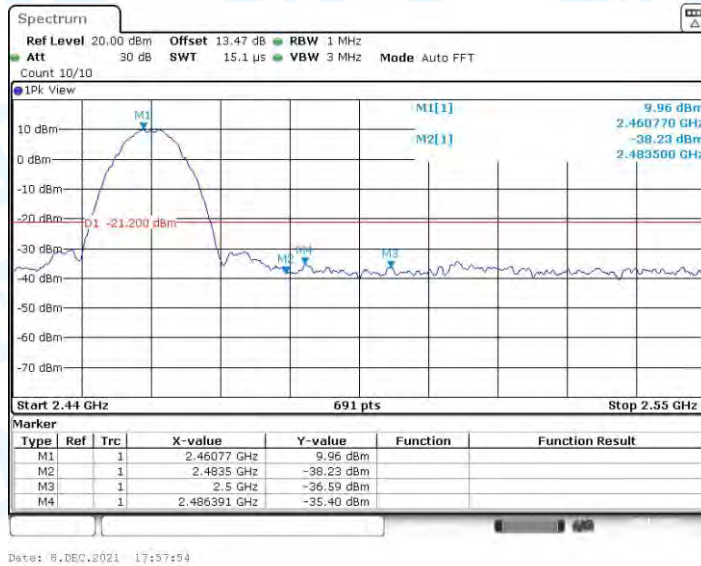
11B_Ant1_Low_2412_AV



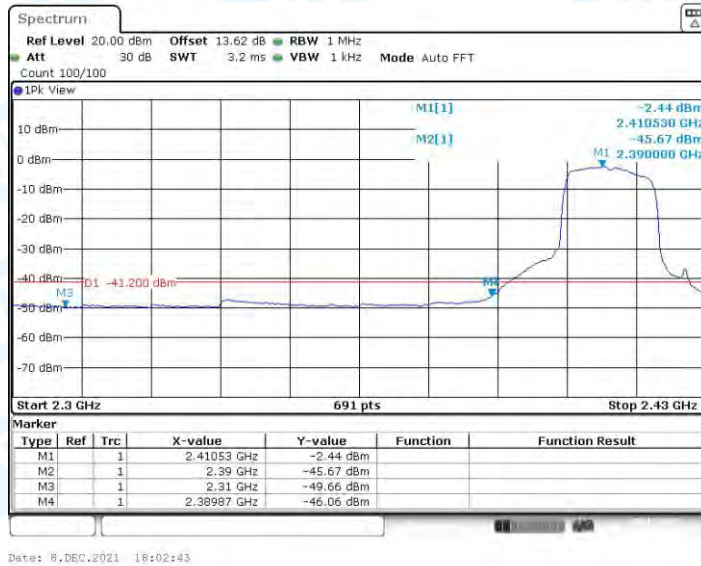
11B_Ant1_Low_2412_Peak



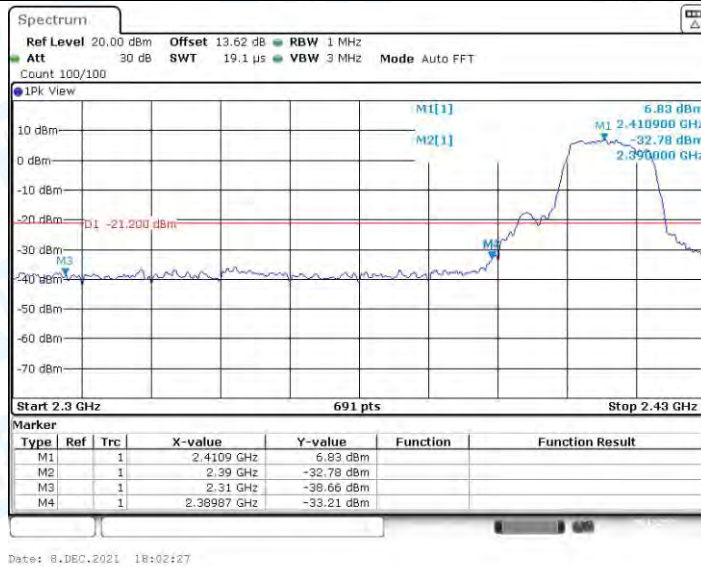
11B_Ant1_High_2462_AV



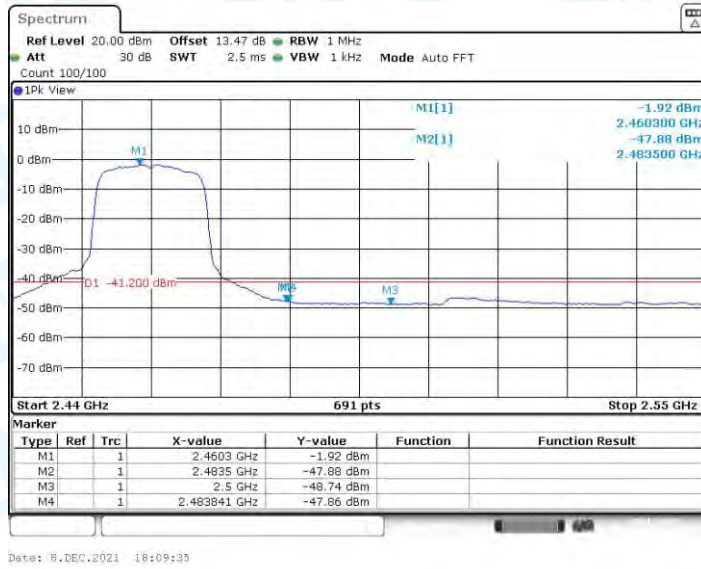
11B_Ant1_High_2462_Peak



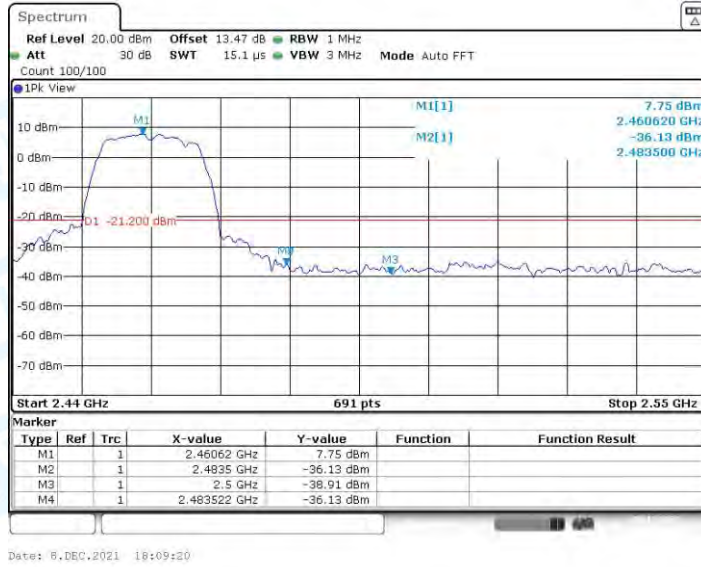
11G_Ant1_Low_2412_AV



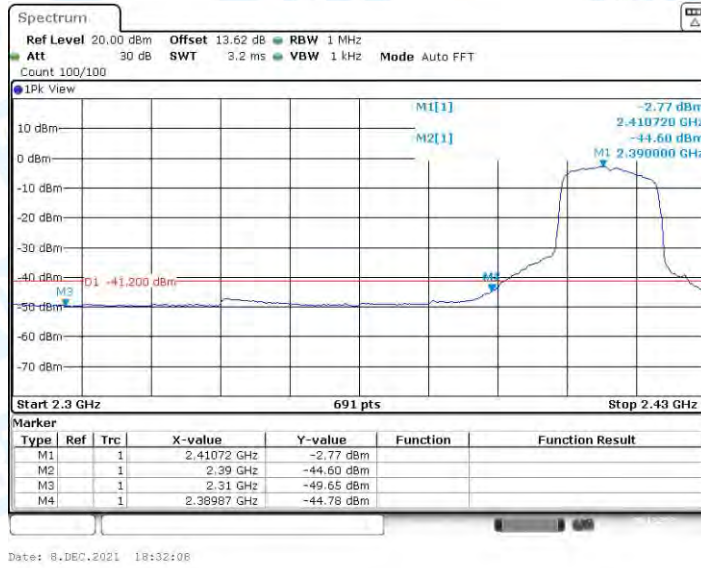
11G_Ant1_Low_2412_Peak



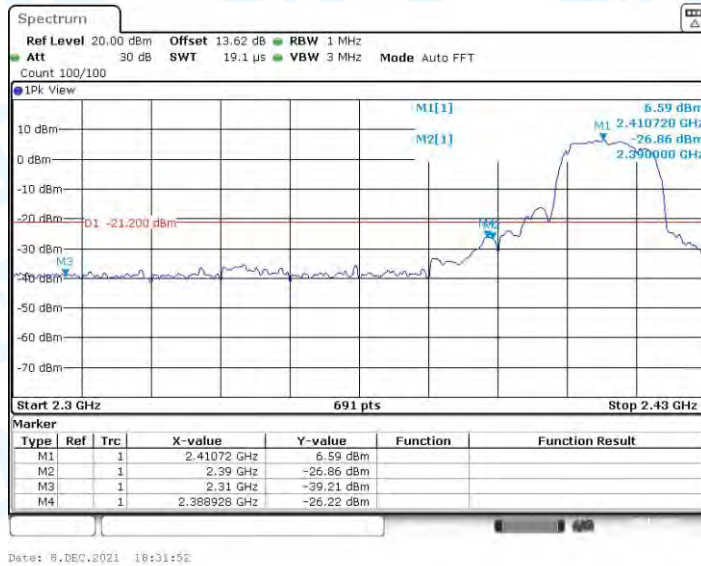
11G_Ant1_High_2462_AV



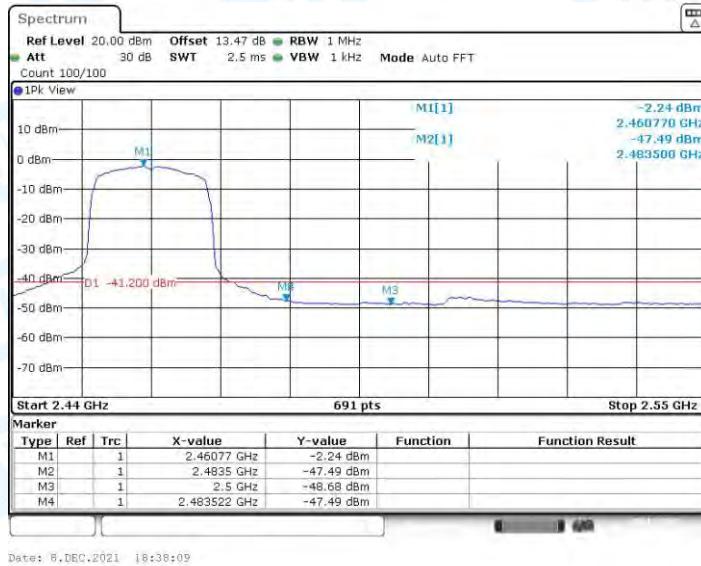
11G_Ant1_High_2462_Peak



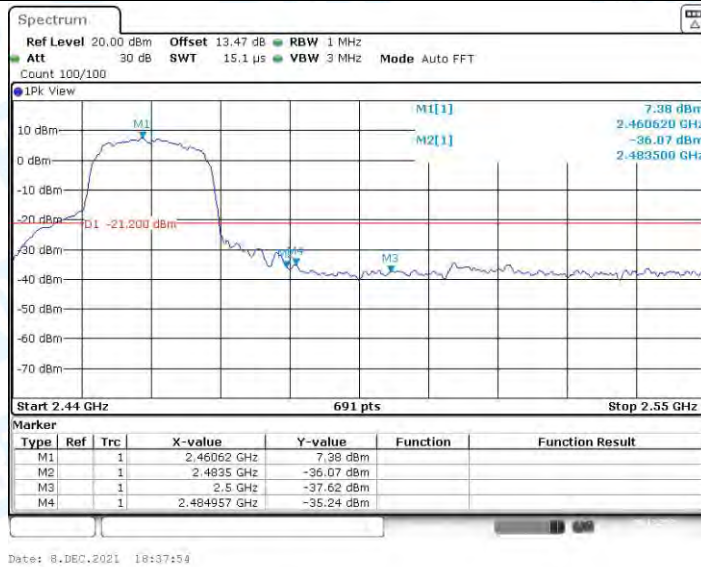
11N20SISO_Ant1_Low_2412_AV



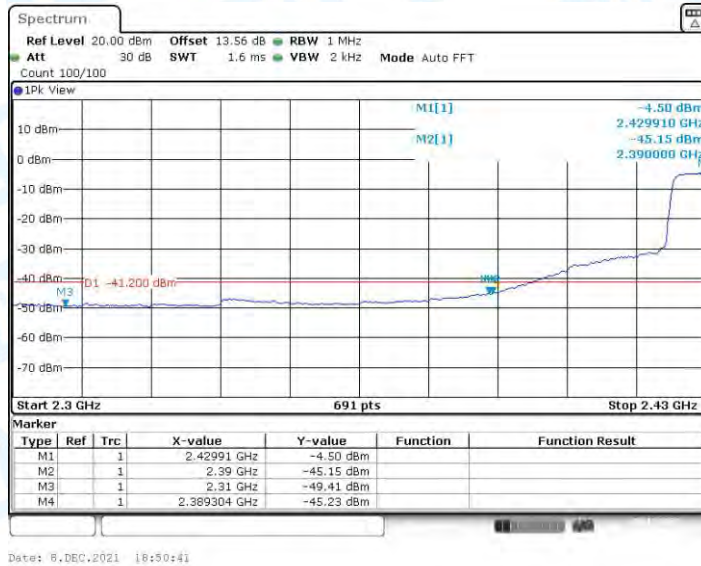
11N20SISO_Ant1_Low_2412_Peak



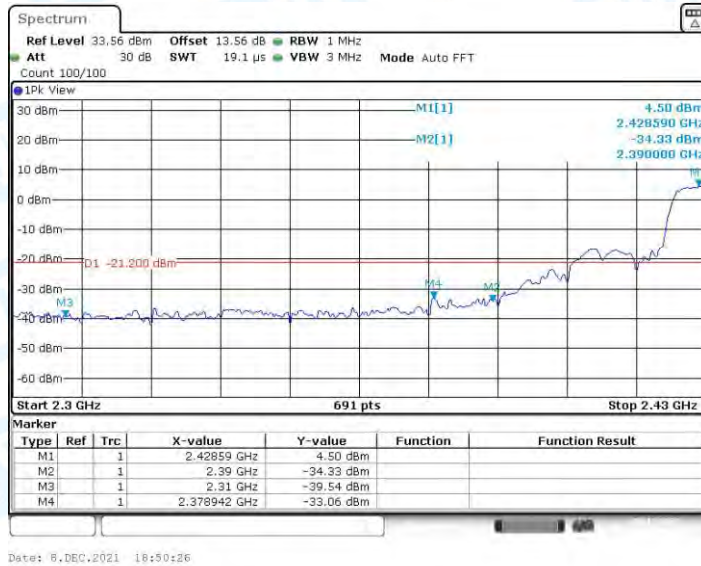
11N20SISO_Ant1_High_2462_AV



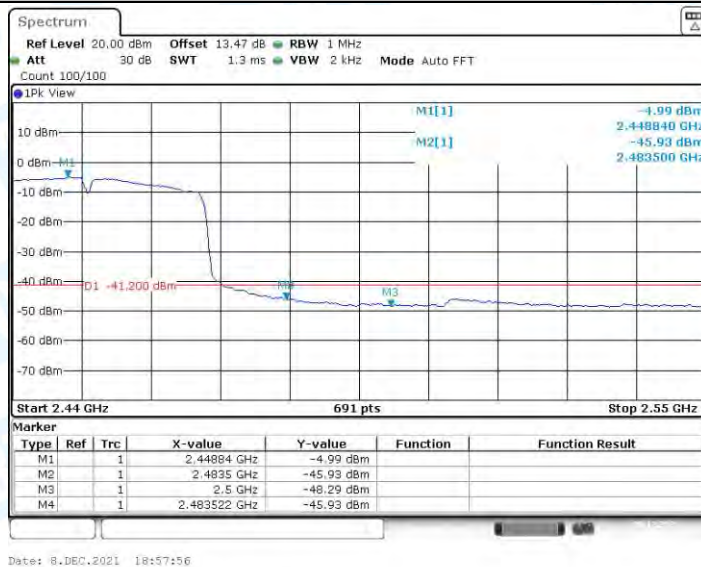
11N20SISO_Ant1_High_2462_Peak



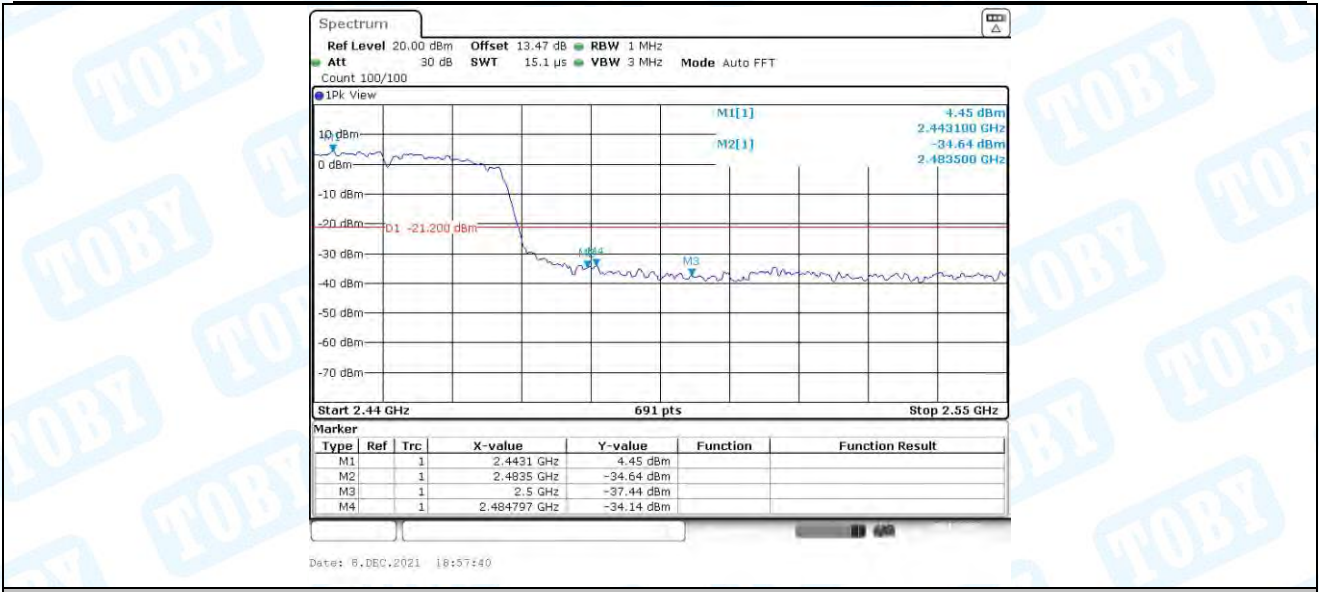
11N40SISO_Ant1_Low_2422_AV



11N40SISO_Ant1_Low_2422_Peak



11N40SISO_Ant1_High_2452_AV



11N40SISO_Ant1_High_2452_Peak

-----End of the report-----